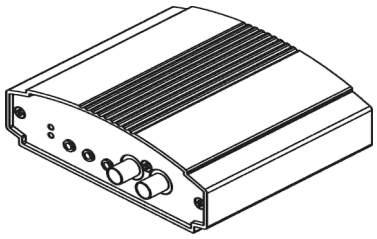
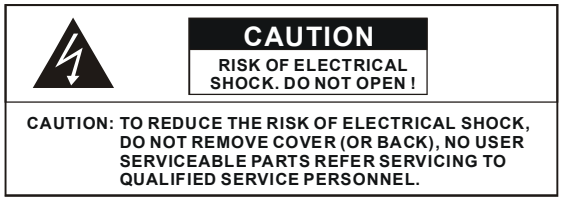
Thank you for purchasing our product.
Please read this User's Manual before
using the product. Change without Notice

H.264 POE VIDEO SERVER

User's Manual



Safety Precautions


CAUTION
RISK OF ELECTRICAL SHOCK. DO NOT OPEN !
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This label may appear on the bottom of the unit due to space limitations.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous Voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR

Attention: installation should be performed by qualified service Personnel only in accordance with the National Electrical Code or applicable local codes.

Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is the ON position. The power cord is the main power disconnect for all unites.

"CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction."

Warranty and Service

During the warranty period (one year), we will repair or replace the DVR free of charge.
Be sure to have the model number, serial number and vendor stick on hard disk for service representative.

FCC Statement:

WARNING

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation."

*** Federal Communications Commission (FCC) Statement**

WARNING

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

* You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

SPECIFICATIONS

Feature

- Support POE
- Support Embedded Linux
- Stand-alone TCP/IP Networking device platform
- Web server for remote setting
- Support pre-alarm and post-alarm
- Support intelligent motion detection (3 motion windows)
- Support RS-485 port with PTZ control
- Remote upgrade and configuration via network

Compression

- Support H.264 / MPEG-4 / MJPEG video compress
- Support H.264 / MPEG-4 / MJPEG dual bit streaming
- Support MP2, AMR-NB audio compress
- Support 2 way audio function
- Support 3G

Storage

- Support on-line backup in AVI file format
- Support SD Card backup for event recording

Networking

- Support RTSP, RTP over TCP/IP, support unicast & multicast
- Support Ethernet LAN 10/100 Mbps for remote view/control, recording data backup, and firmware update
- Optional Wi-Fi 802.11 b/g for supporting wireless LAN communication
- Support uPnP IGD device

I/O

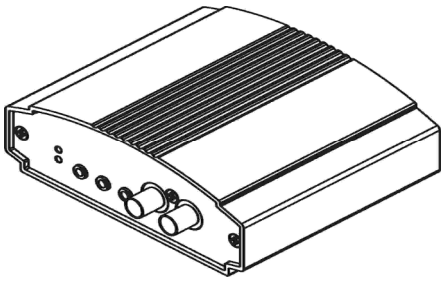
- Support Digital I/O (One channel: 2 IN/2 OUT) for 2 sensor input, 2 relay out.

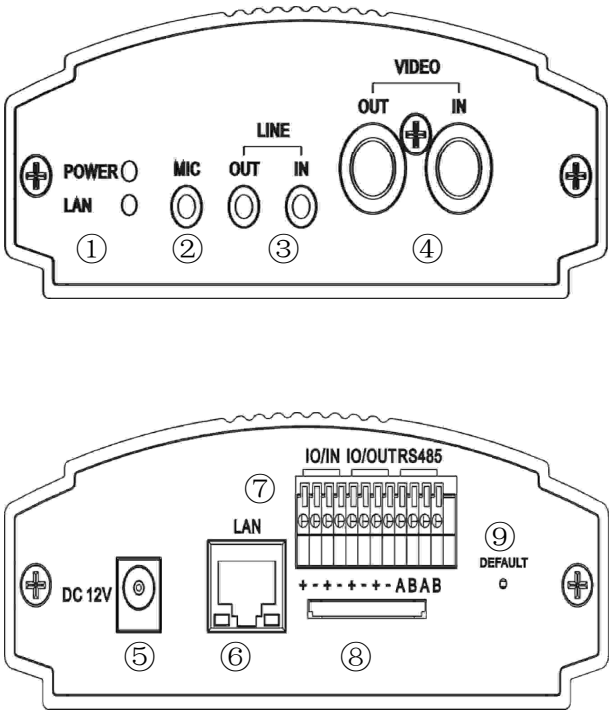
Power

- Support +12V DC power adapter input system

1. IP Camera I / O & Connection

VIDEO SERVER DEVICE





① POWER LED / LAN LED: power on status and network connecting status

② MIC: Microphone cable input

③ LINE IN: CD / MP3 player audio input, LINE OUT: Audio speaker

④ VIDEO IN: Camera video input / VIDEO OUT: Camera video loop out connection

⑤ POWER: DC 12 V / 1 A adaptor input

⑥ RJ-45: Network cable connection

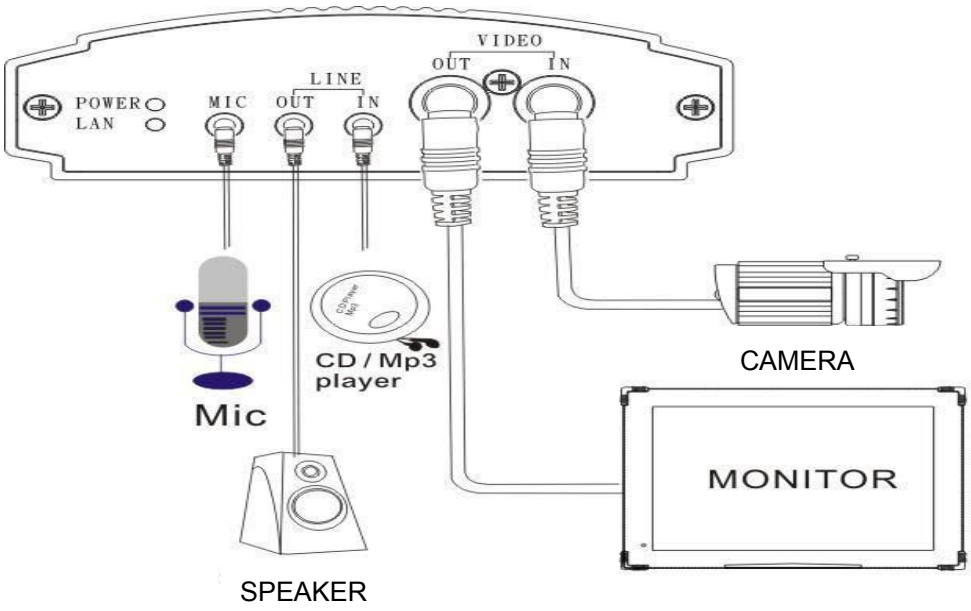
⑦ ALARM IN / ALARM RELAY OUT / RS 485: + / -- connector

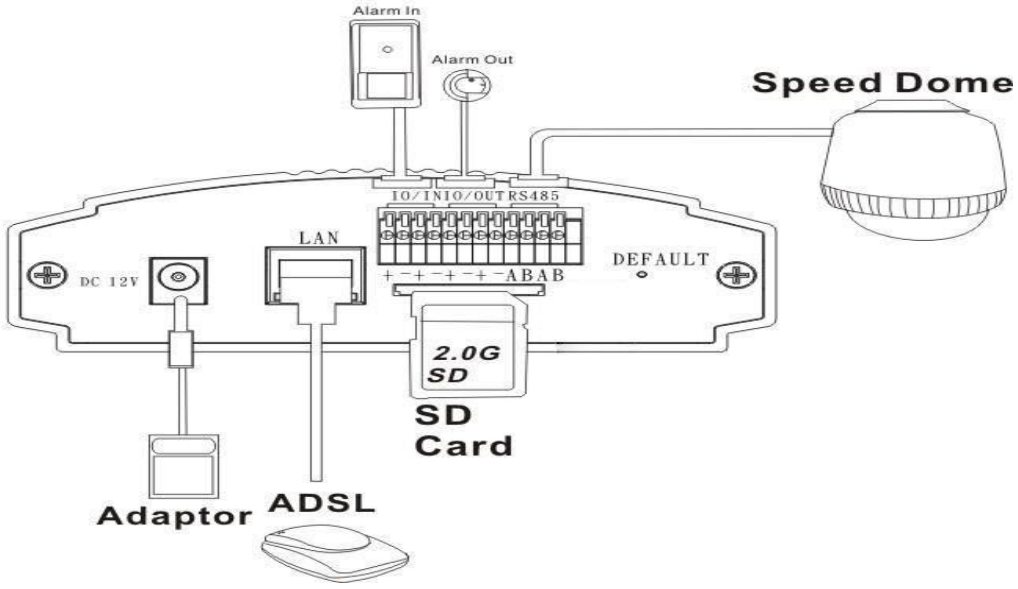
⑧ SD card: Secure Digital card interface

⑨ DEFAULT: Set to factory default

*** Microphone has the priority output if line input at the same time.**

CONNECTION：





NOTICE:

1. Install Security_System_Viewer.exe of CD-R disk. Direct X 9.0 is required.

2. Go to IE browser to setup the IP address such as PPPoE & DDNS, DHCP or STATIC type. The default IP address is 192.168.1.51

3. Or just use 192.168.1.51 to log in video server client

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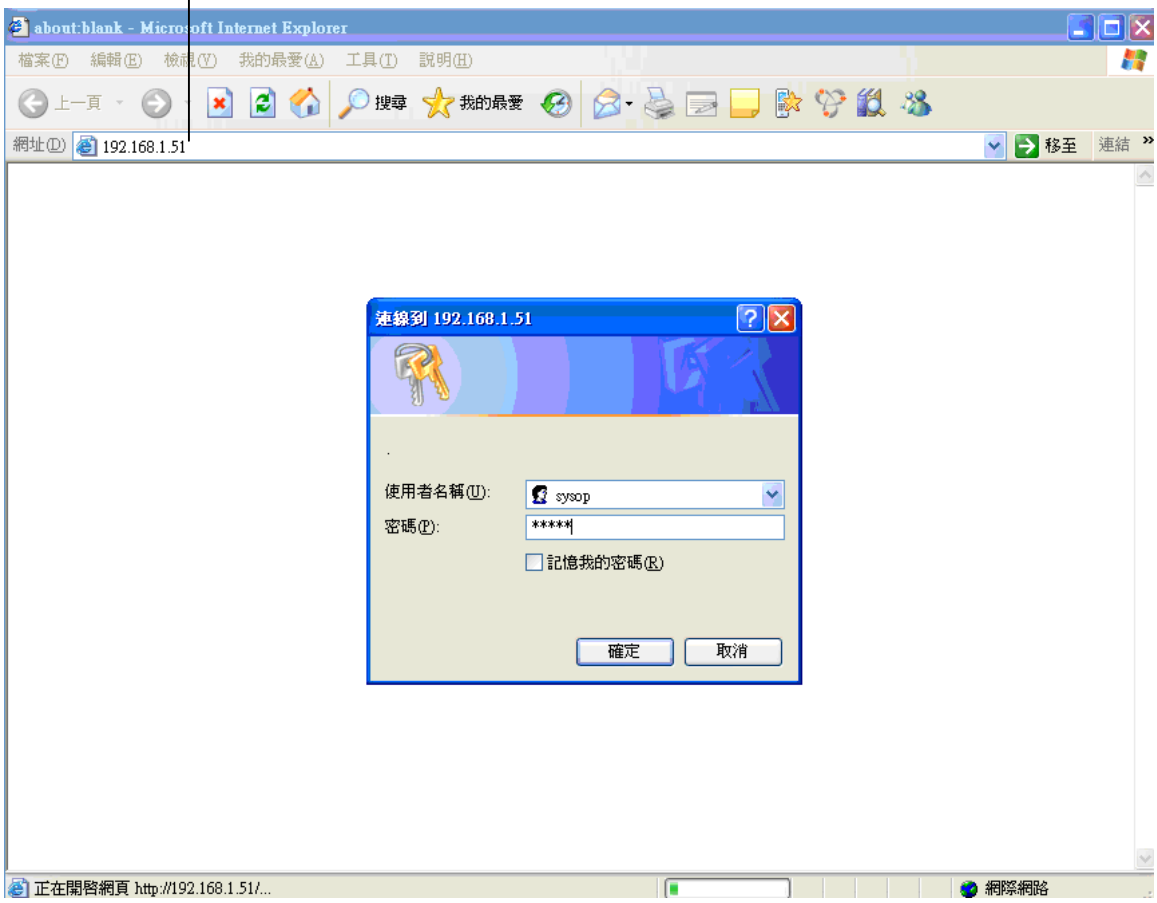
2. IP Camera Function Setup

Enter the default website address of IP Camera in your web browser.

192.168.1.51



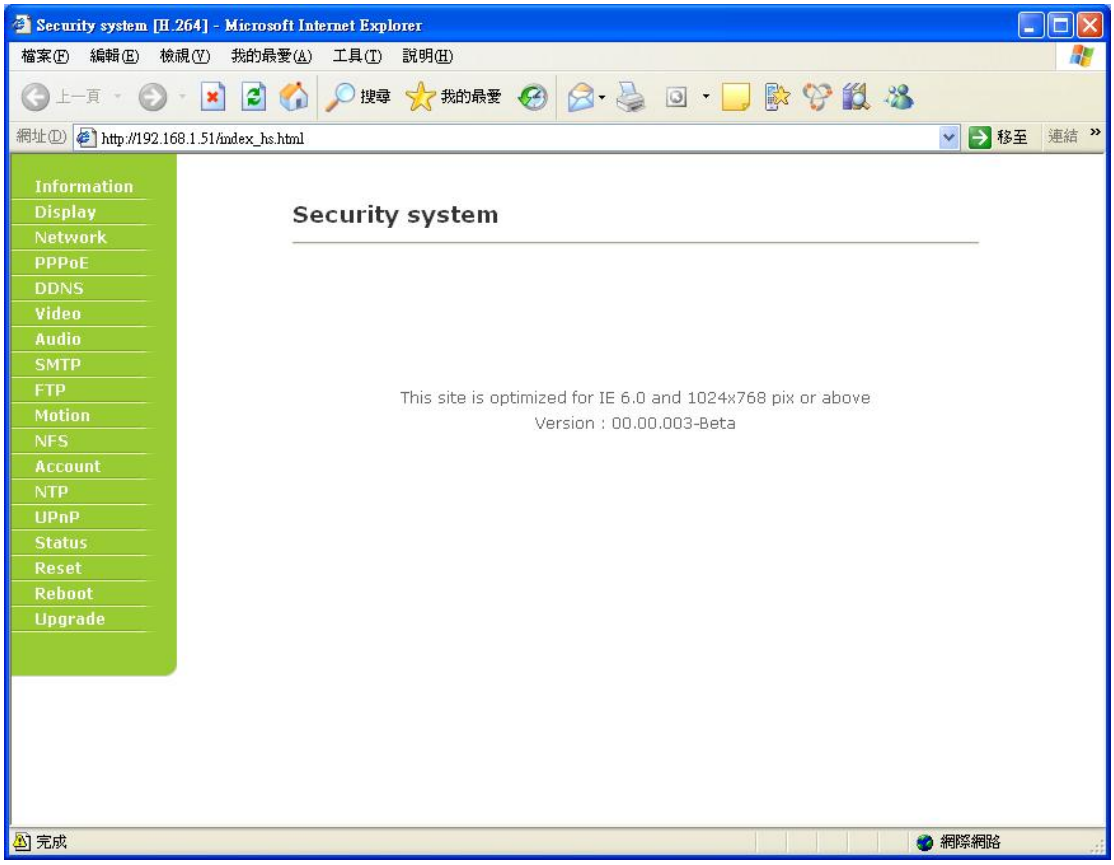
Default user name and password is “sysop”

Suggest computer system requirements:

- CPU : at least PD -2.4 G above
- RAM : at least 2048 MB above (for 4 channels connection), 8GB will be better (for 16 channels connection)
- VGA card : nVidia 7300GT, 512 MB VRAM (for 4 channels connection),

NOTICE:

1. Install Security_System_Viewer.exe of the CD-ROM . Direct X 9.0b or higher is required.
2. Open your browser to setup parameters such as PPPoE & DDNS, DHCP or STATIC type.
   The default IP address of IP Cam is 192.168.1.51

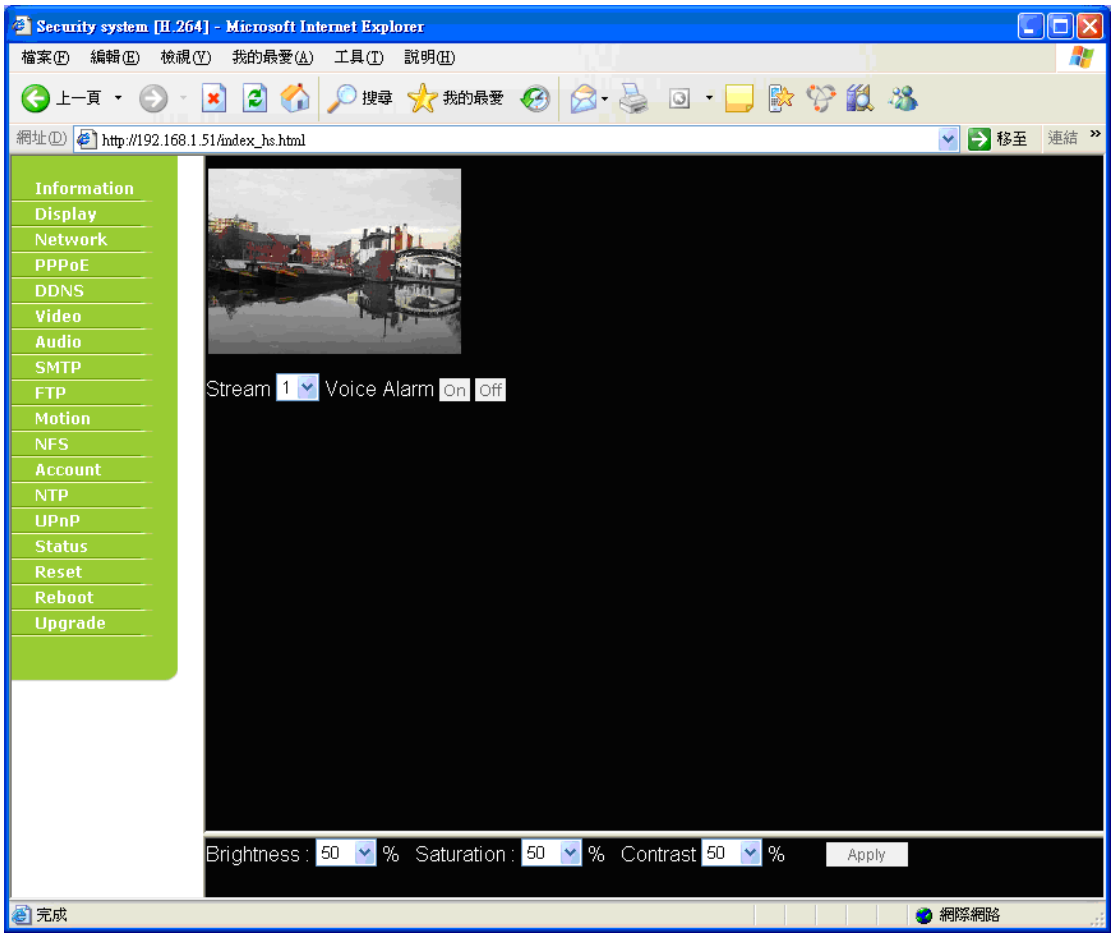


Information	Display the IP Camera Firmware version
Display	Live screen display
Network	Network function setup
PPPoE	ADSL dialing account setup
DDNS	DDNS setup
Video	Video transfer type setup
Audio	Audio transfer type setup
SMTP	Simple Mail Transfer Protocol setup
FTP	File Transfer Protocol
Motion	Motion detection setup
NFS	Network File server setup
Account	Login ID and password setup
NTP	Network Time Protocol
UPnP	Universal plug & play
Status	Connection Status of IP Camera
Reset	Factory default
Reboot	Device reboot
Upgrade	Update new firmware

* More details for each function will be introduced in the following page.

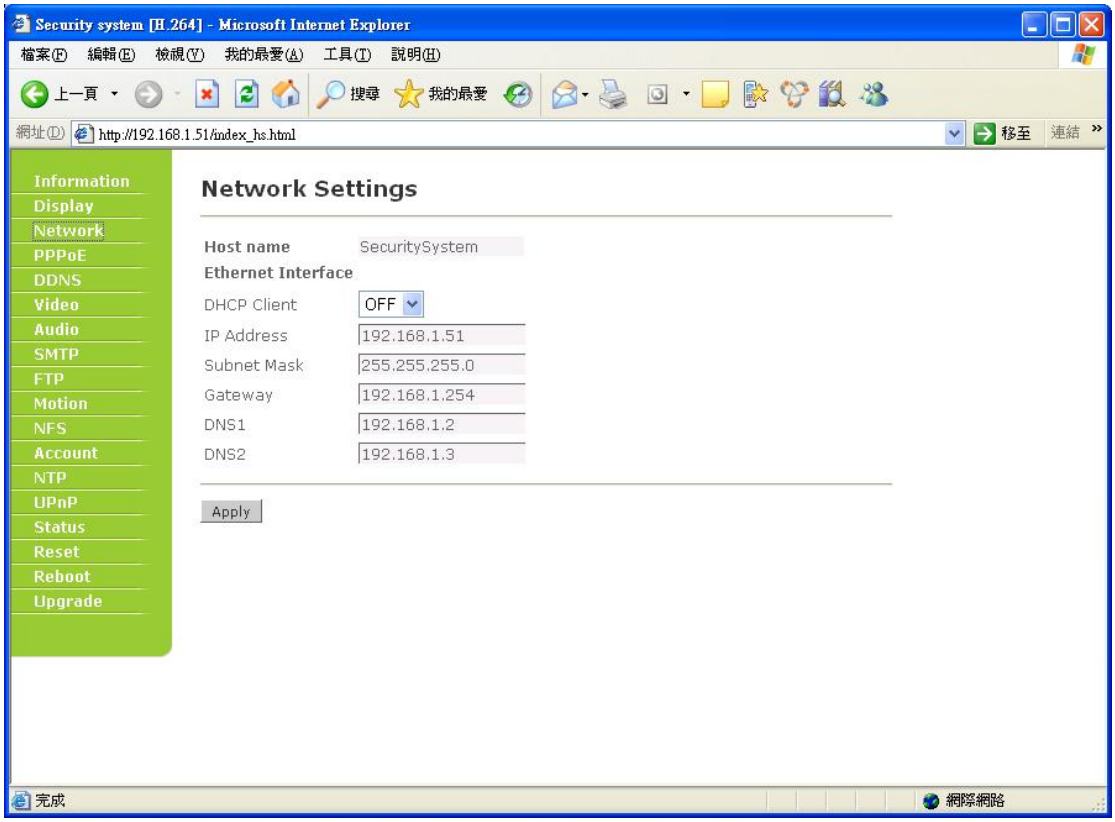
2.1 DISPLAY

Click Display to start view live video screen



Stream	Depend on video setting values , switch stream1 or stream2
Voice Alarm	ON / OFF. to send out a warning voice.
Brightness	Live image brightness adjust. 10 ~ 100
Saturation	Live image saturation adjust. 10 ~ 100
Contrast	Live image contrast adjust. 10 ~ 100
Apply	Click Apply button after image adjustment

2.2 Network

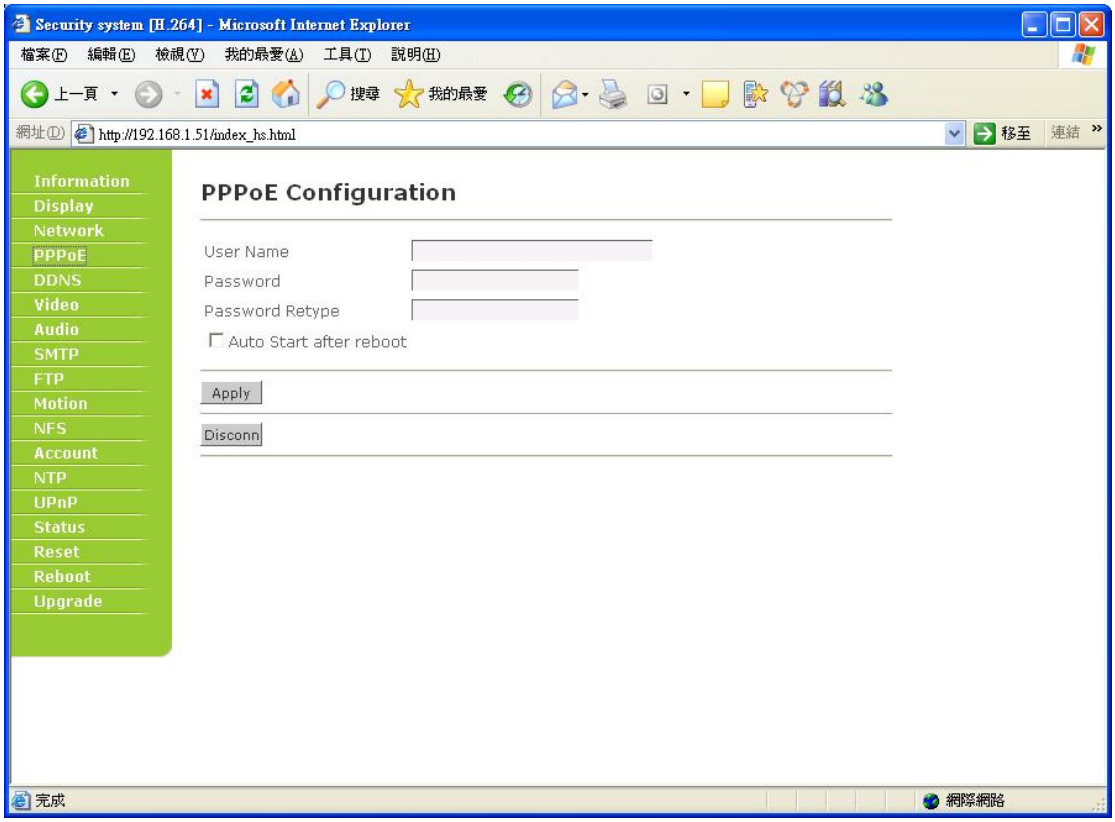


Host name: Name of this IP Cam.

Ethernet Interface

DHCP Client	ON / OFF (If set ON , the local LAN needs a DHCP server)
IP Address	Input the Fixed IP address (if DHCP set off)
Subnet Mask	Input the Subnet mask (if DHCP set off)
Gateway	Input the local LAN router IP address
DNS1	Input primary DNS IP address
DNS2	Input secondary DNS IP address

2.3 PPPoE

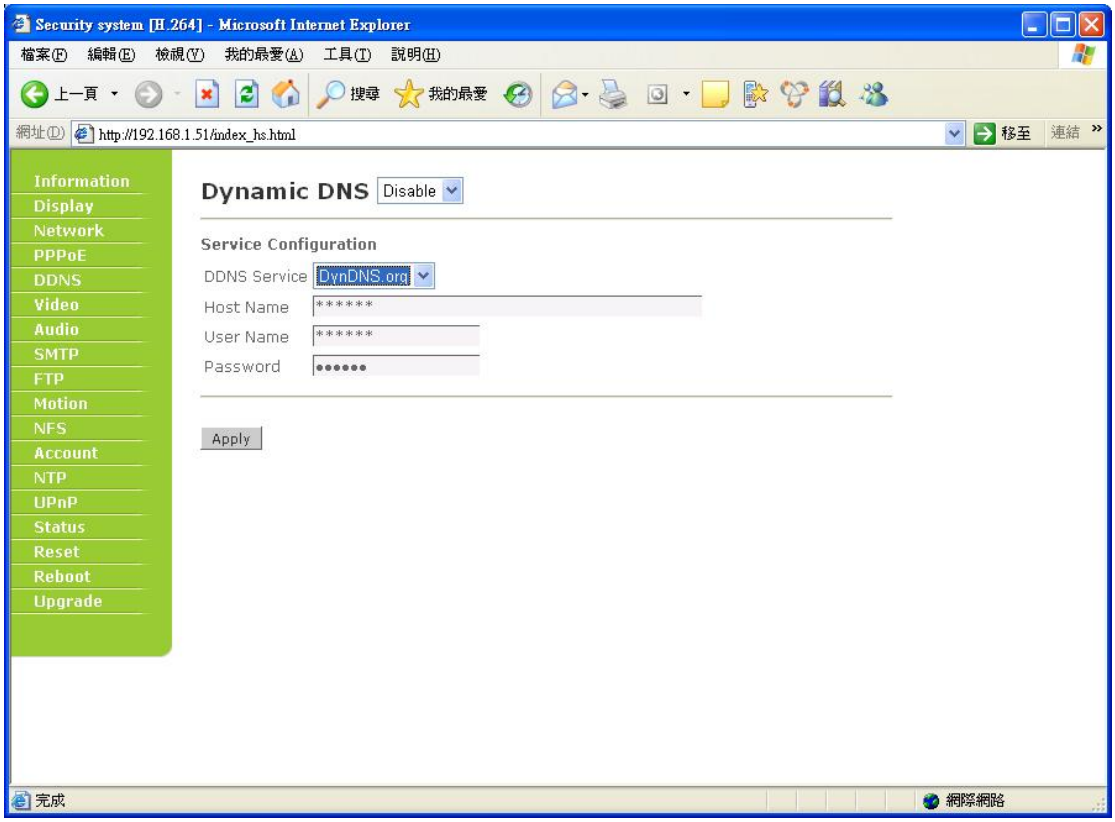


PPPoE (Point-to-Point Protocol over Ethernet) is a specification for connecting multiple computer users on an Ethernet local area network to a remote site through common customer premises equipment, which is the telephone company's term for a modem and similar devices. PPPoE can be used to have an office or building-full of users share a common Digital Subscriber Line (DSL), cable modem, or wireless connection to the Internet. PPPoE combines the Point-to-Point Protocol (PPP), commonly used in dialup connections, with the Ethernet protocol, which supports multiple users in a local area network. The PPP protocol information is encapsulated within an Ethernet frame.

If user is going to use PPPoE connection, please obtain your login name and password from the ISP (Internet Service Provider).

User Name	User network dialup login name
Password	User network dialup login password
Password Retype	User login password confirm again
Auto Start after reboot	Auto connect after IP Camera reboot
Disconnect	Manual disconnect PPPoE connection

2.4 DDNS



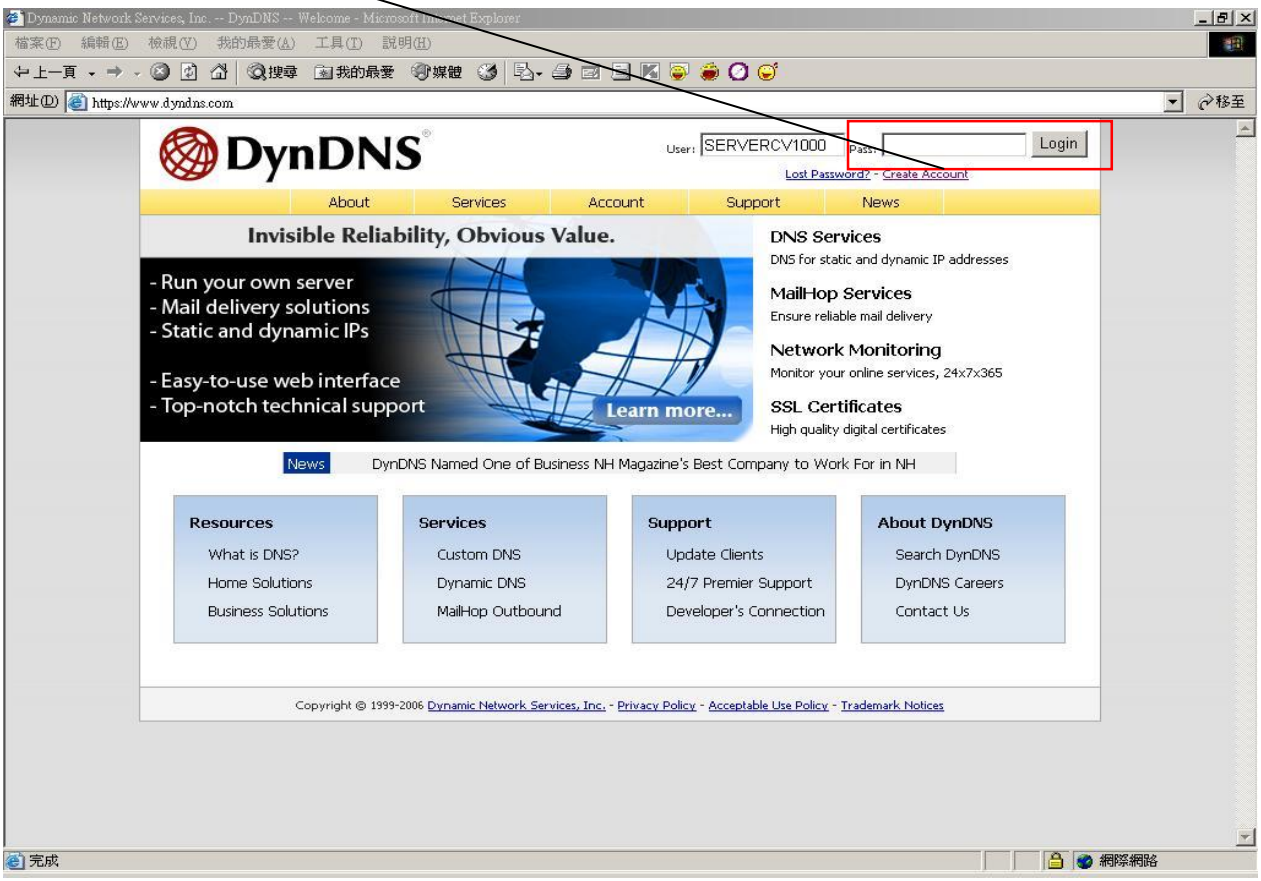
DDNS (Dynamic DNS) is a service that maps Internet domain names to IP addresses. DDNS serves a similar purpose to DNS: DDNS allows anyone hosting a Web or FTP server to advertise a public name to prospective users.

The Dynamic DNS service is ideal for a home website, file server, or just to keep a pointer back to your home and office PC so you can access IP Camera via internet. Using one of the available third-party update clients you can keep your hostname always pointing to your IP address, no matter how often your ISP changes it.

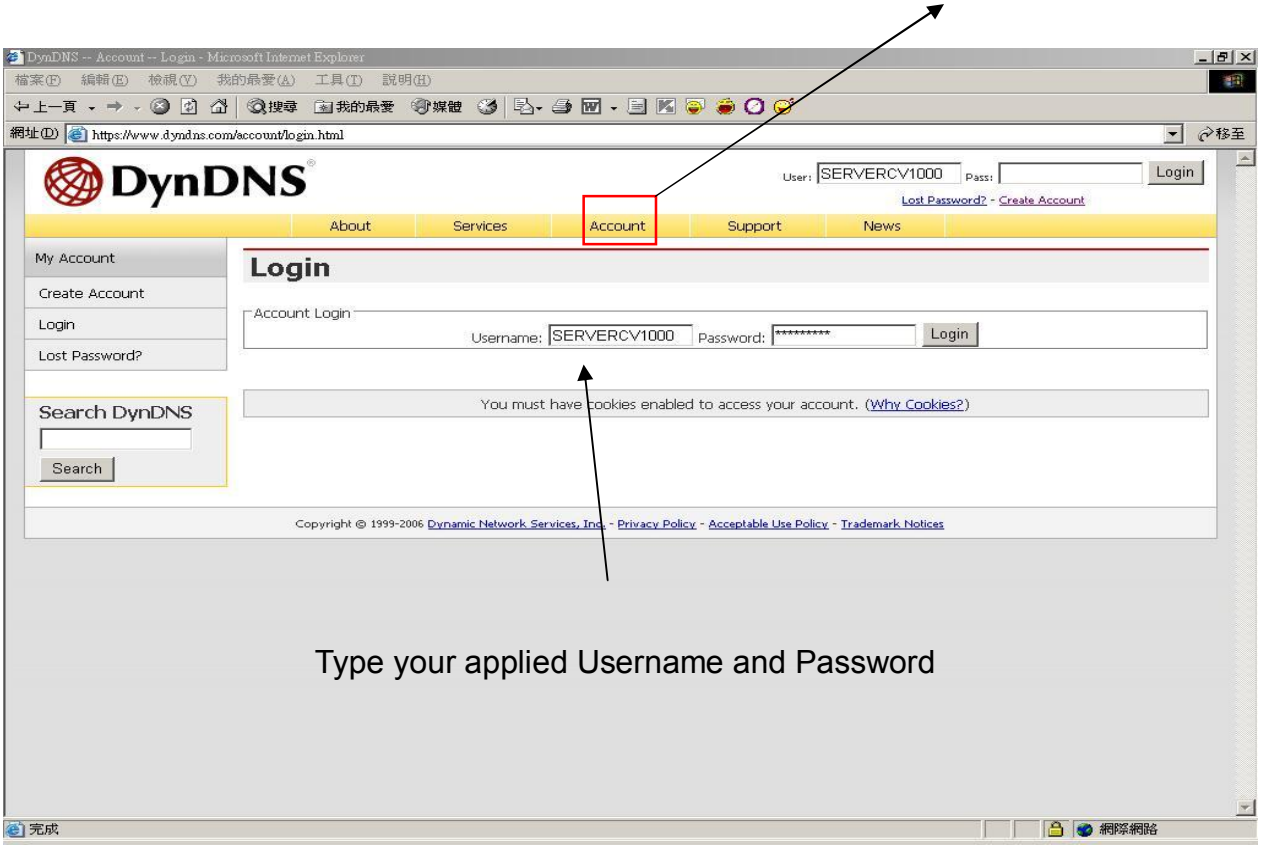
Dynamic DNS	Enable / Disable
DDNS Service	DynDNS.org / 3322.org
Host Name	DDNS host name
User Name	DDNS login name
Password	DDNS login password

If host Name is cv1000, then the correct typing is cv1000.dynDNS.org
DDNS only works with PPPoE
Ex: Enter in www.dyndns.com to apply a free account and host name.

Click Create Account to register a new ID.

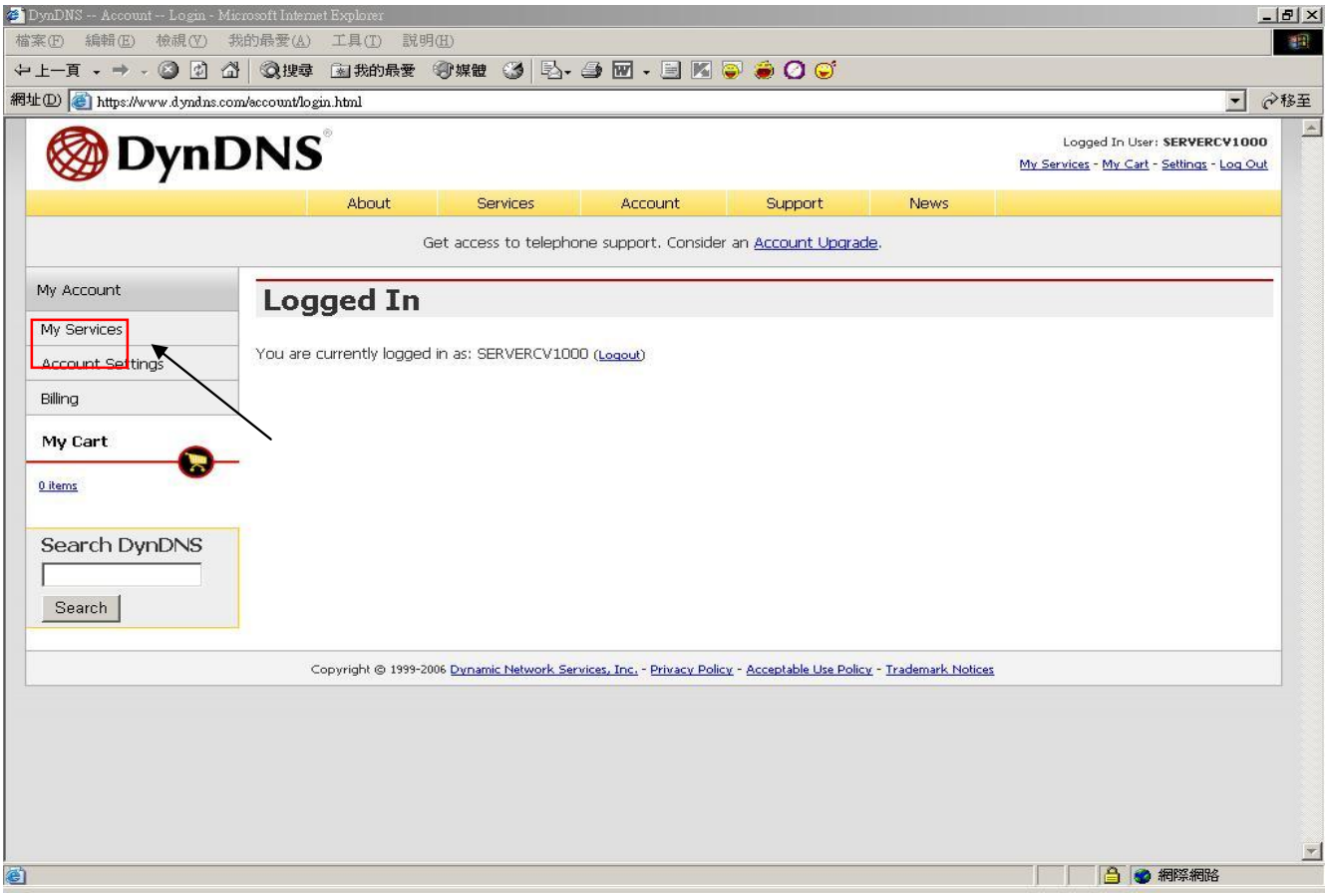


Fill in all the personal information, password, email requested; please check the mial sent by DynDNS to activate your new account. Return to DynDNS website and click Account to Login page.

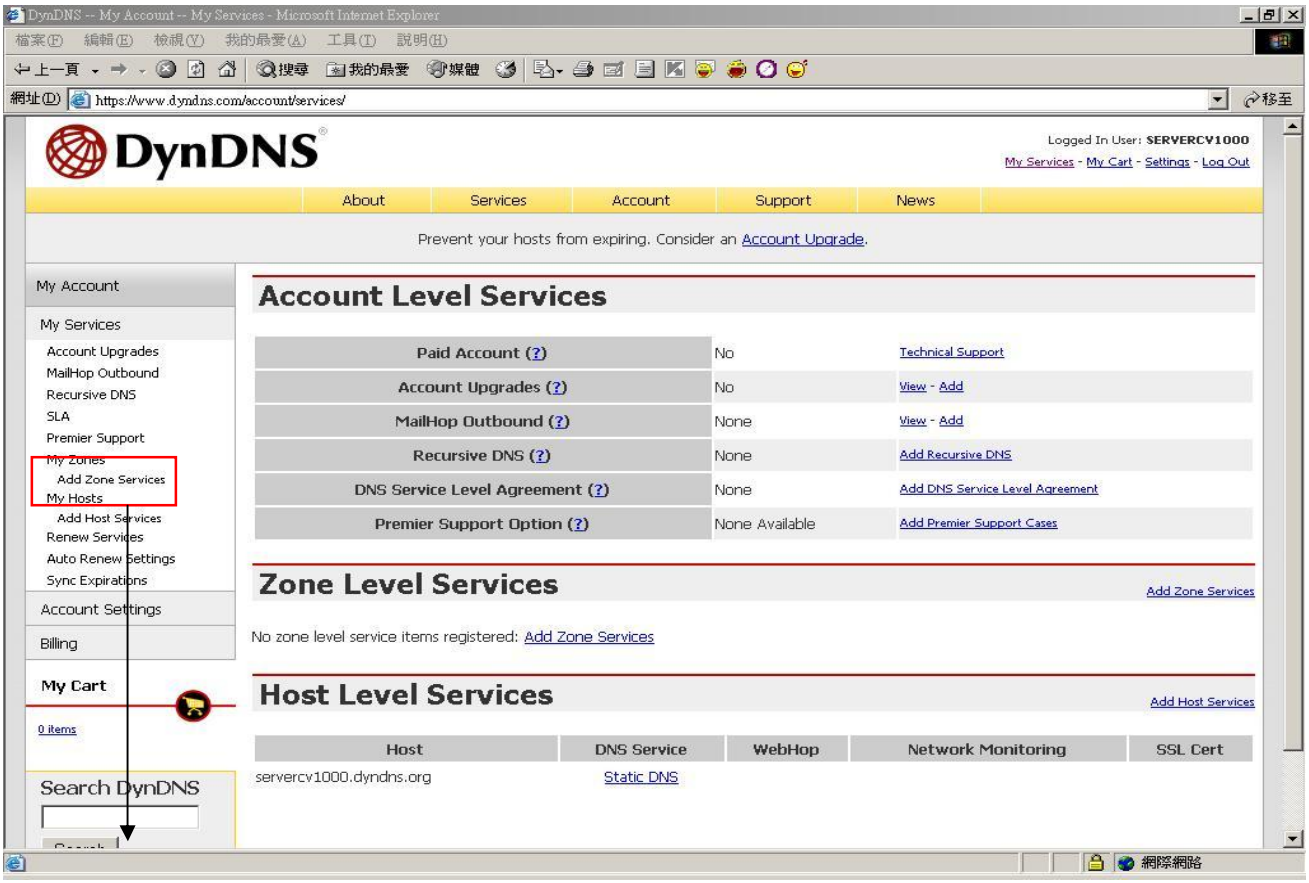


Type your applied Username and Password

Logged In page

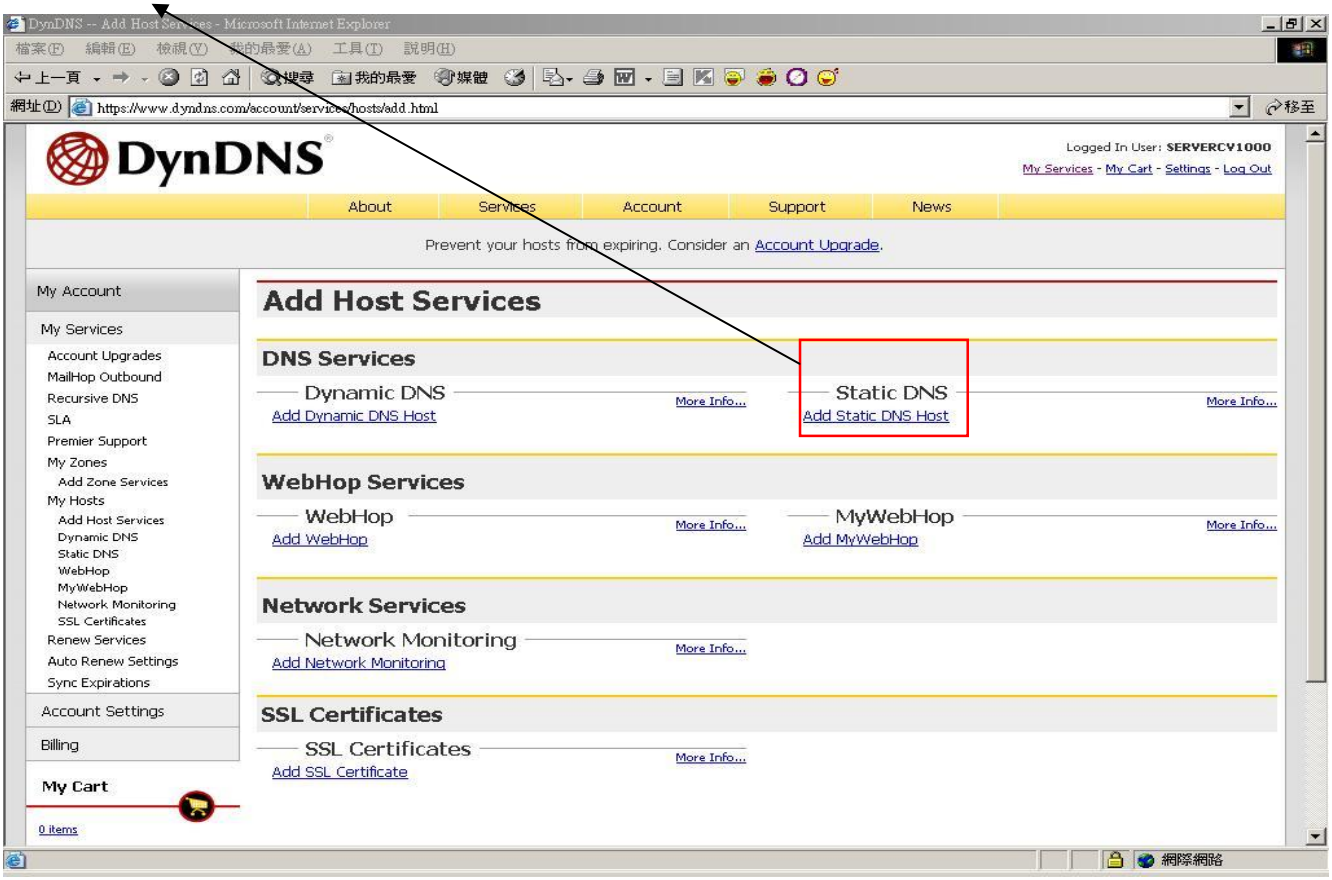


Click Add Host Services:

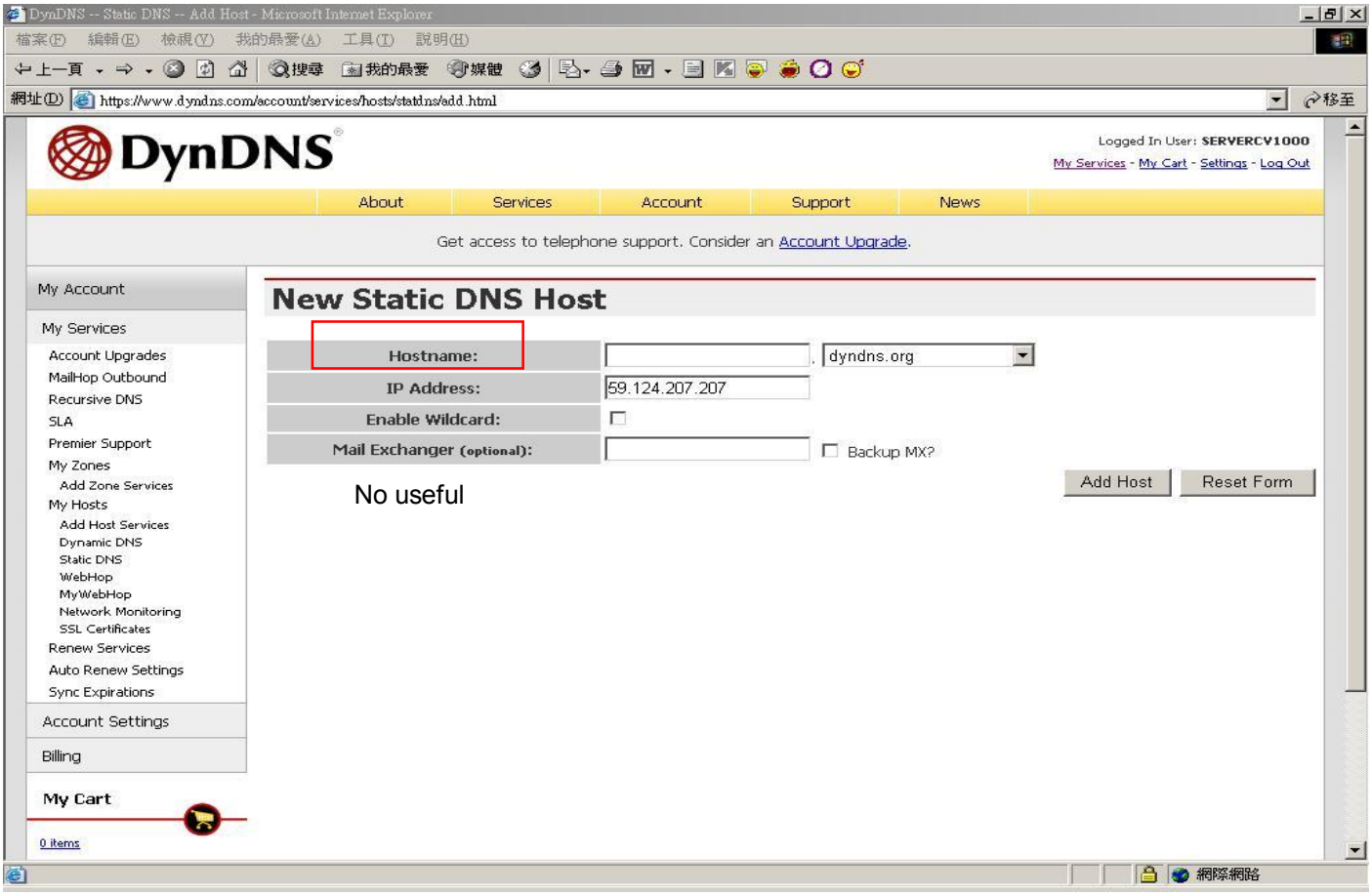


Add static DNS Host:

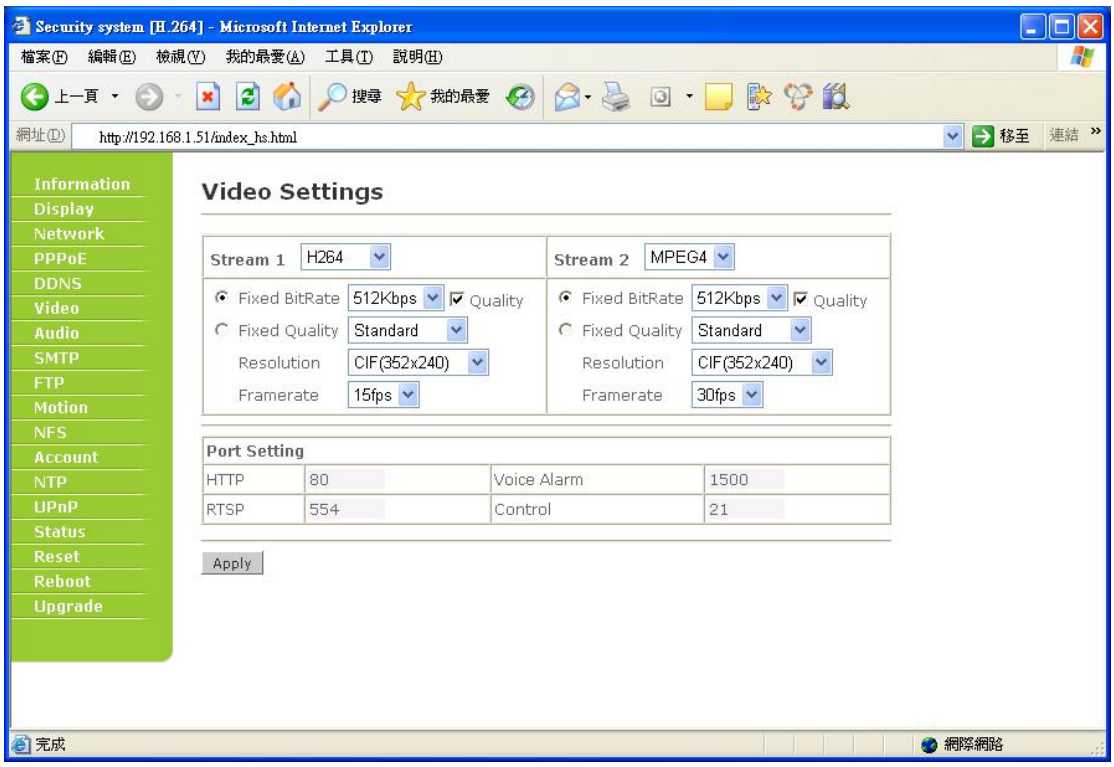
Select Static DNS: add Static DNS Host



Type a Hostname user decided.



2.5 Video



Stream1 Settings

Stream 1	H264 / MPEG4 / MJPEG
Fixed BitRate	Image resolution is subjected to the transmit speed From 64 Kbps ~ 1M bps
Fixed Quality	Image resolution is subjected to quality So So / OK / Not Bad / Medium / Standard / Good / Pretty Good
Resolution	Video resolution selection NTSC : (QCIF:176x120 / CIF:352x240 / D1:720x480) PAL : (QCIF:176x144 / CIF:352x288 / D1:720x576)
Frame rate	Scanning frame per second among internet (from 5 to 30 fps)

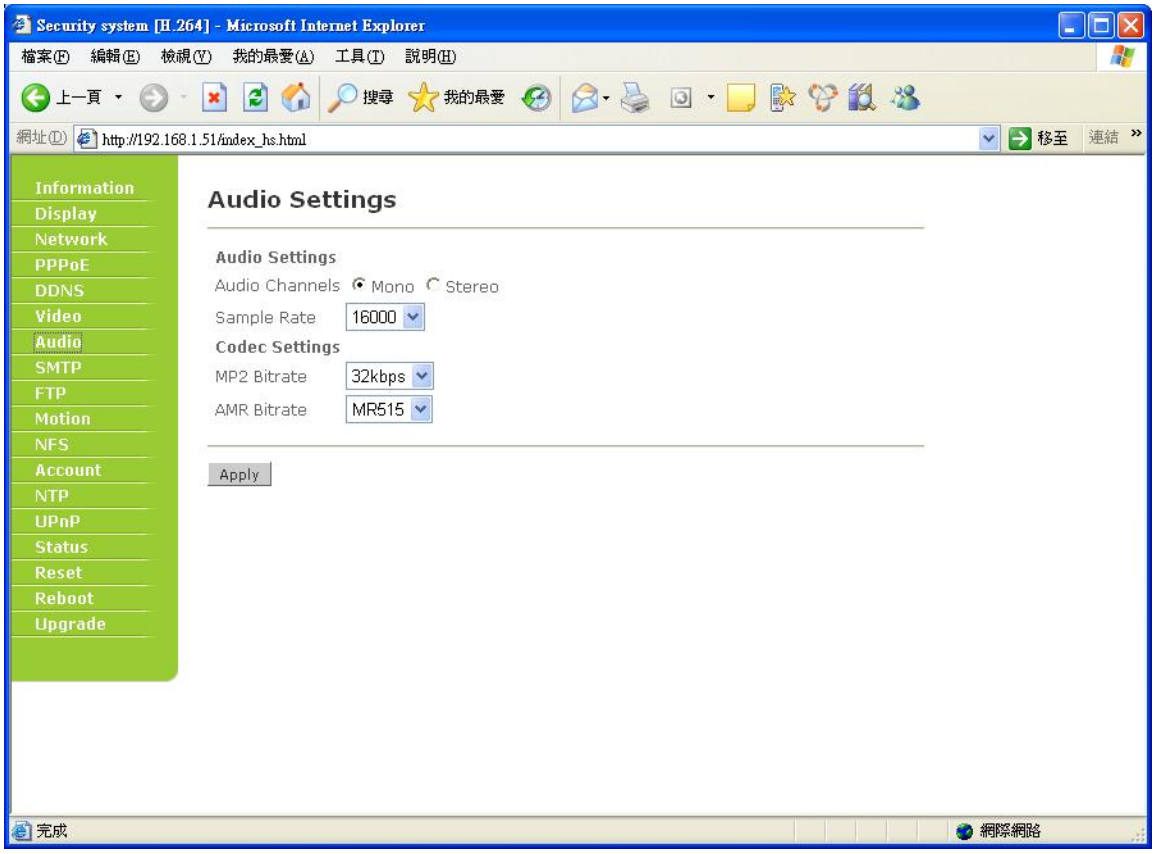
Stream2 Settings

Stream 2	Disable / H264 / MPEG4 / MJPEG
Fixed BitRate	Image resolution is subjected to the transmit speed From 64 Kbps ~ 1M bps
Fixed Quality	Image resolution is subjected to quality So So / OK / Not Bad / Medium / Standard / Good / Pretty Good
Resolution	Video resolution selection NTSC : (QCIF:176x120 / CIF:352x240 / D1:720x480) PAL : (QCIF:176x144 / CIF:352x288 / D1:720x576)
Frame rate	Scanning frame per second among internet (from 5 to 30 fps)

Port Setting

Let user setting the network transport port.

2.6 Audio



Audio Settings

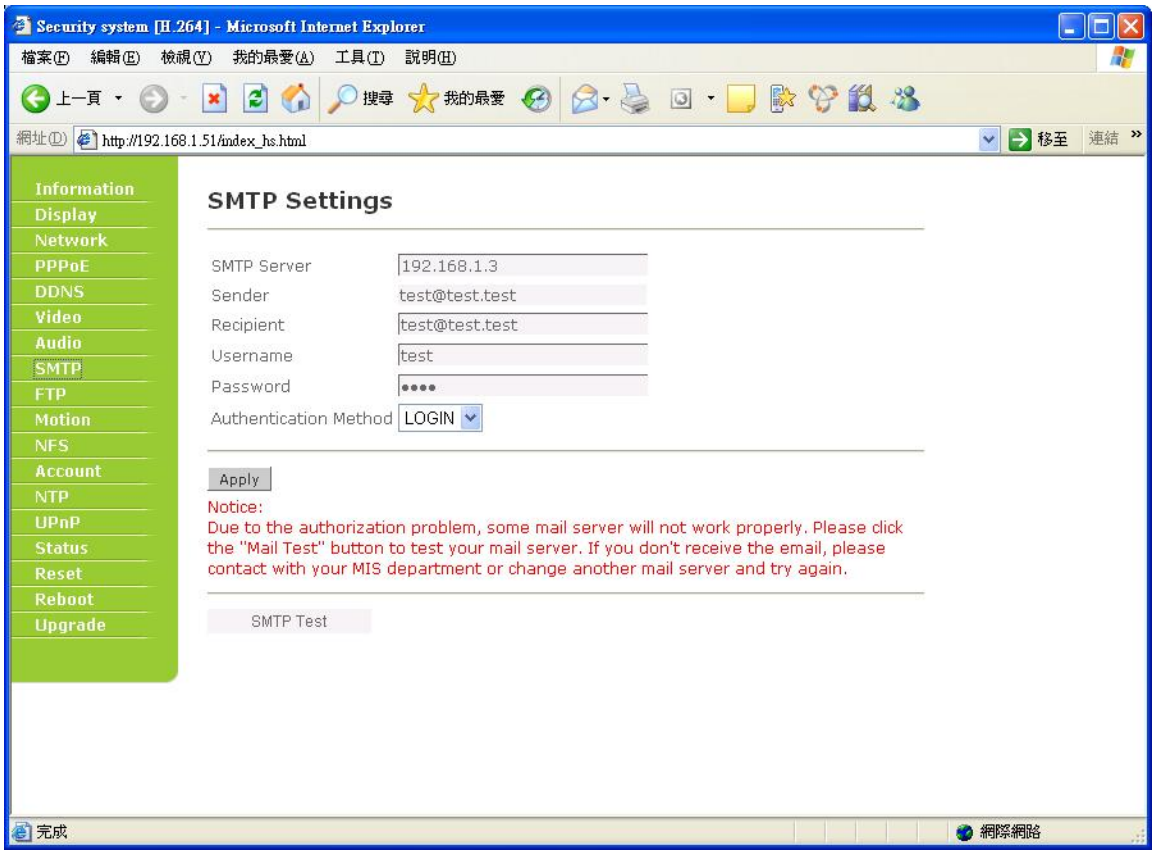
Audio Channel	Select Mono or Stereo sound
Sample Rate	16000 / 22050 / 32000 / 48000

Codec Settings:

MP2 Bitrate	32kbps (sound clarity low) 48kbps (sound clarity normal) 64kbps (sound clarity good)
AMR Bitrate	MR 59 / MR 67 / MR 74 / MR 102 / MR 122 / MR 475 / MR 515 / MR 795

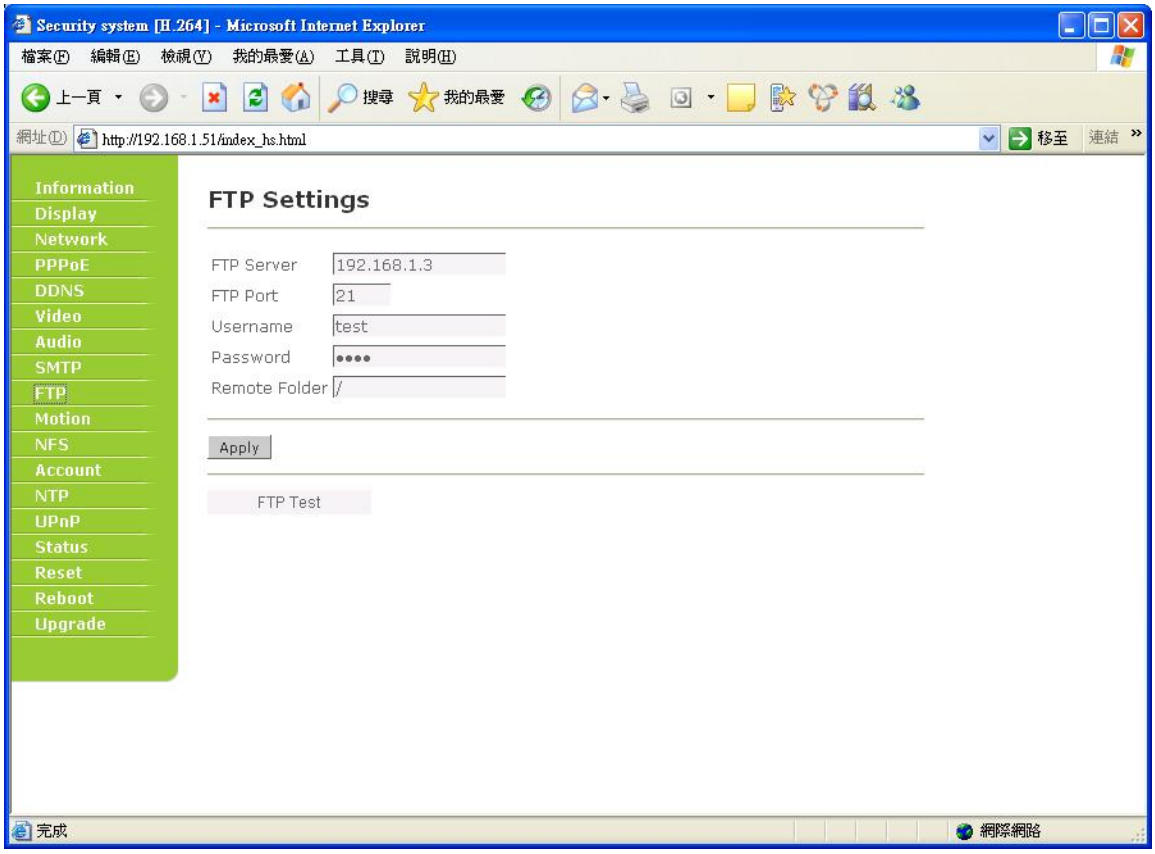
2.7 SMTP

Email account login name / password / address setup



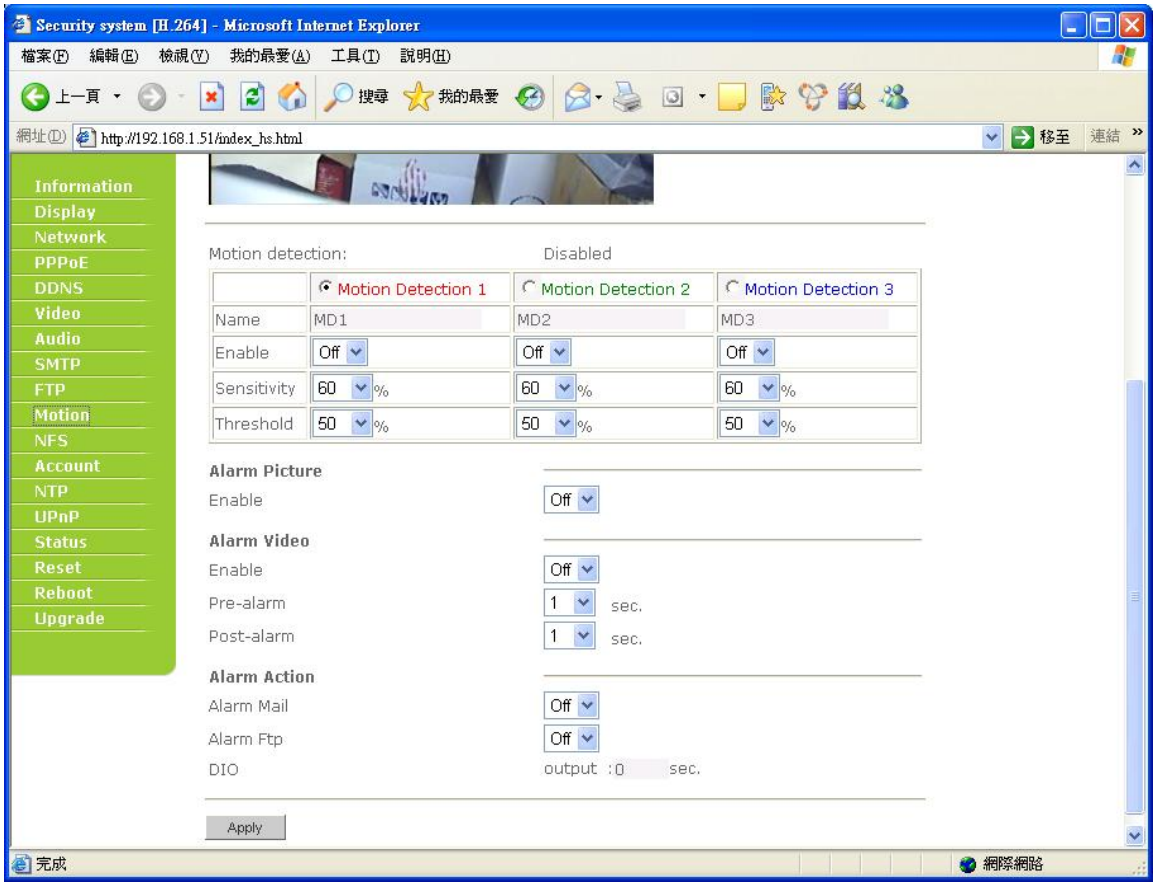
SMTP Server	Enter mail server address Some mail servers will reject the E-mail dispatch by the sources with high sending frequency. Please check the mail server policies restriction
Sender	Sender's email address Ex: test@test.test
Recipient	Receiver's email address Ex: HS168@hotmail.com
Username	Sender's email login name
Password	Sender's email login password
Authentication Method	PLAIN / LOGIN
Apply	Confirm
SMTP Test	Mail sends and receive test

2.8 FTP



FTP Server	FTP server IP address User can get a free FTP server from the lists or setup a FTP server in user's computer
FTP Port	File transfer port setup
Username	FTP server, user login name
Password	FTP server, user login password
Remote Folder	File saved path. User needs to add a new path and folder
Apply	Click apply button after value change
FTP Test	File sending to FTP server test

2.9 MOTION

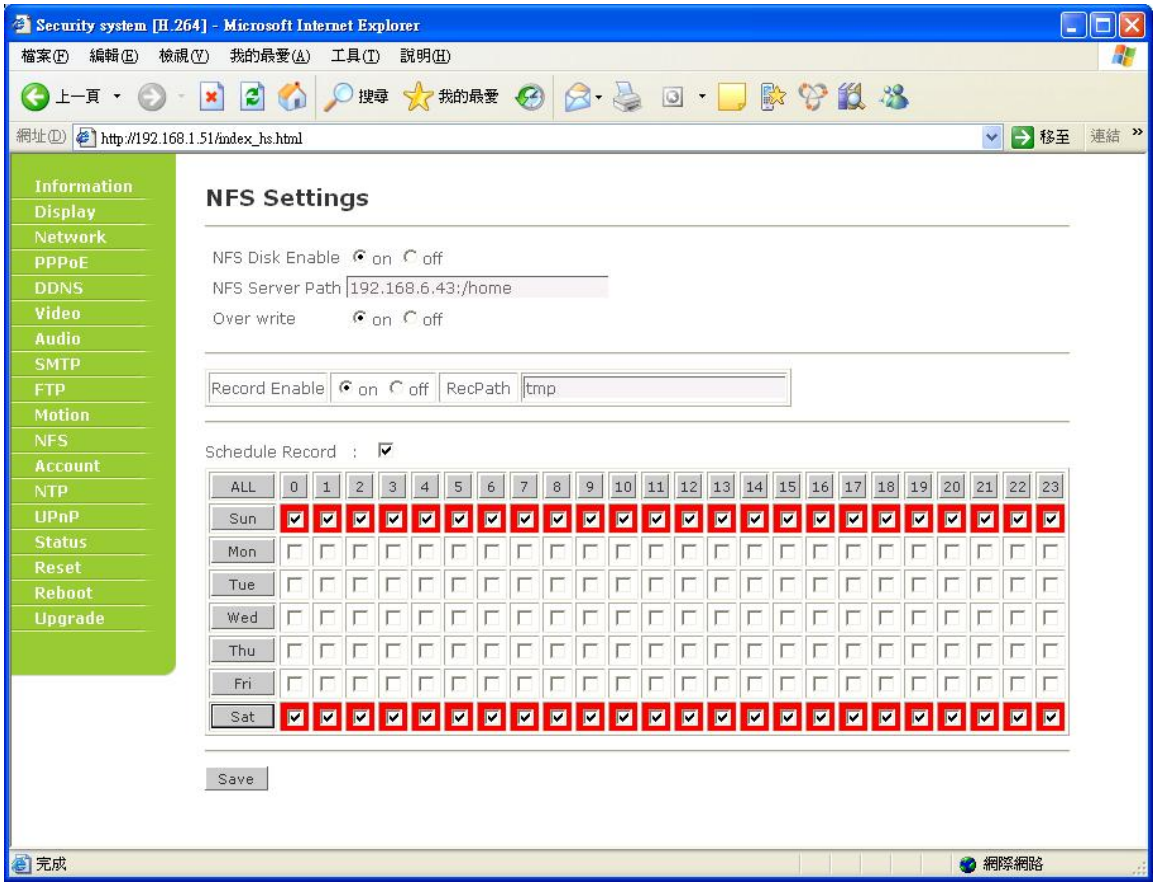


Motion Detection Settings

Motion Detection 1~3	define motion detection window User can setup 3 area motion detection
Name	Motion name
Enable	ON/OFF
Sensitivity	10% (low) ~ 100%(high)
Threshold	Motion detection setup window. Motion detection will be triggered when motion range exceed the setup window. 10% (easy to trigger) ~ 100% (hard to trigger)

Alarm Picture	Enable	ON/OFF, if set to ON , it will save picture on SD memory card.
Alarm Video	Enable	ON/OFF, if set to ON , it will save video image on SD memory card.
	Pre-Alarm	Set from 1 to 10 seconds , record video before motion trigger .
	Post-Alarm	Set from 1 to 10 seconds , record video after motion trigger .
Alarm Action	Alarm Mail	Send alarm images and videos to user's mail account when an alarm is activated
	Alarm FTP	Send alarm images and videos to specified FTP address when an alarm is activated
	DIO	GPIO output dwell time .

2.10 NFS



The IP CAM support scheduling record on the NFS server. User need to setup the NFS server IP address and record path at first, enable the schedule record, it will record video image on the NFS server .

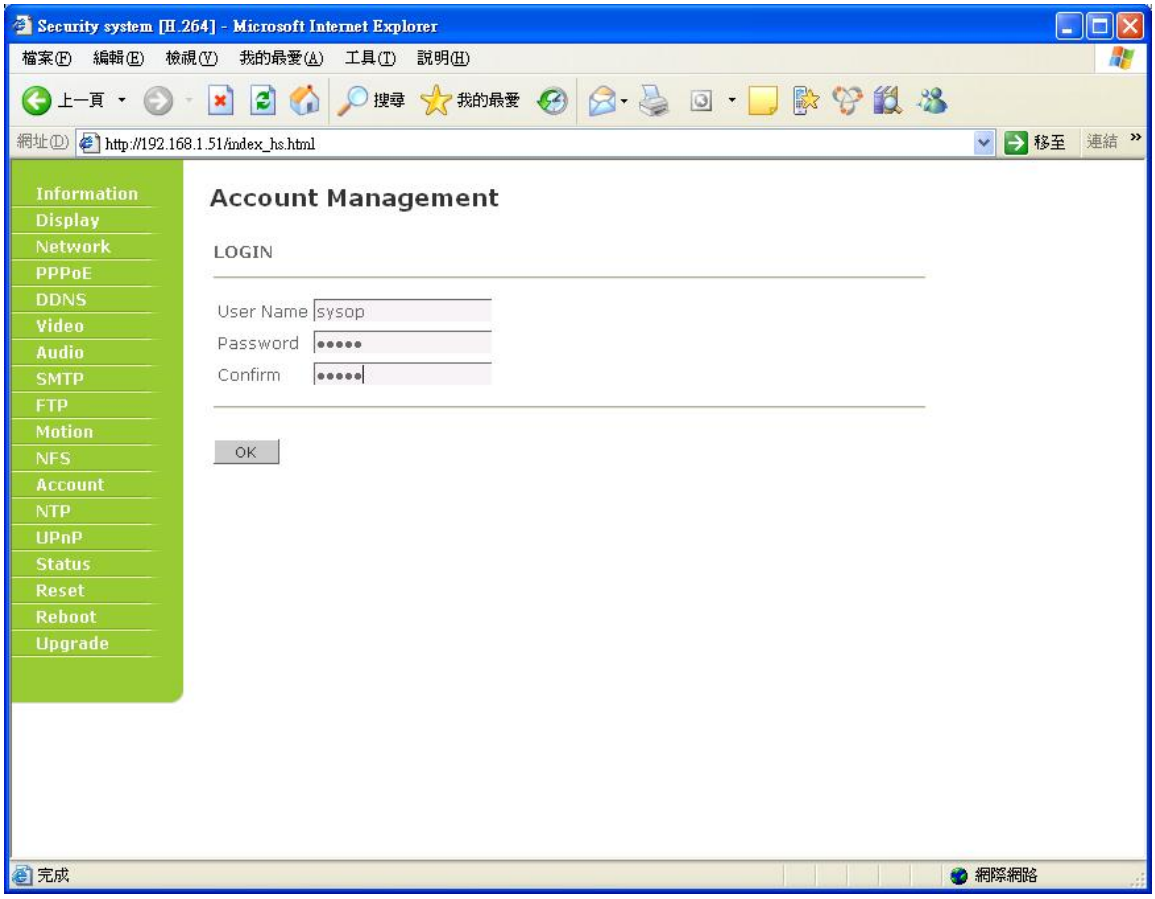
NFS Disk enable	ON / OFF, Enable or disable the NFS server
NFS Server Path	Setup the NFS server path
Over Write	When NFS hard disk space is full , the record data will over write oldest data
Record Enable	ON / OFF , If set to ON , It starts to record immediately .
Rec Path	Setup the NFS record file path
Schedule Record	Enable / Disable If enable , it will follow the schedule table to record video image
ALL	Enable or disable all the schedule record table
0 ~ 23	It means hours from 0 to 23 hour Enable or disable the hours of the schedule record table
Sun ~ Sat	It means days from Sunday to Saturday Enable or disable the days of the schedule record table
Save	Apply all the setting values

Notice :

1. **Record on the NFS server , the video resolution will follow the stream 1 setting values.**
2. **Record on the NFS server , the duration of one file is set to ten minutes, it means one hour record will be saved with 6 files .**

2.11 Account

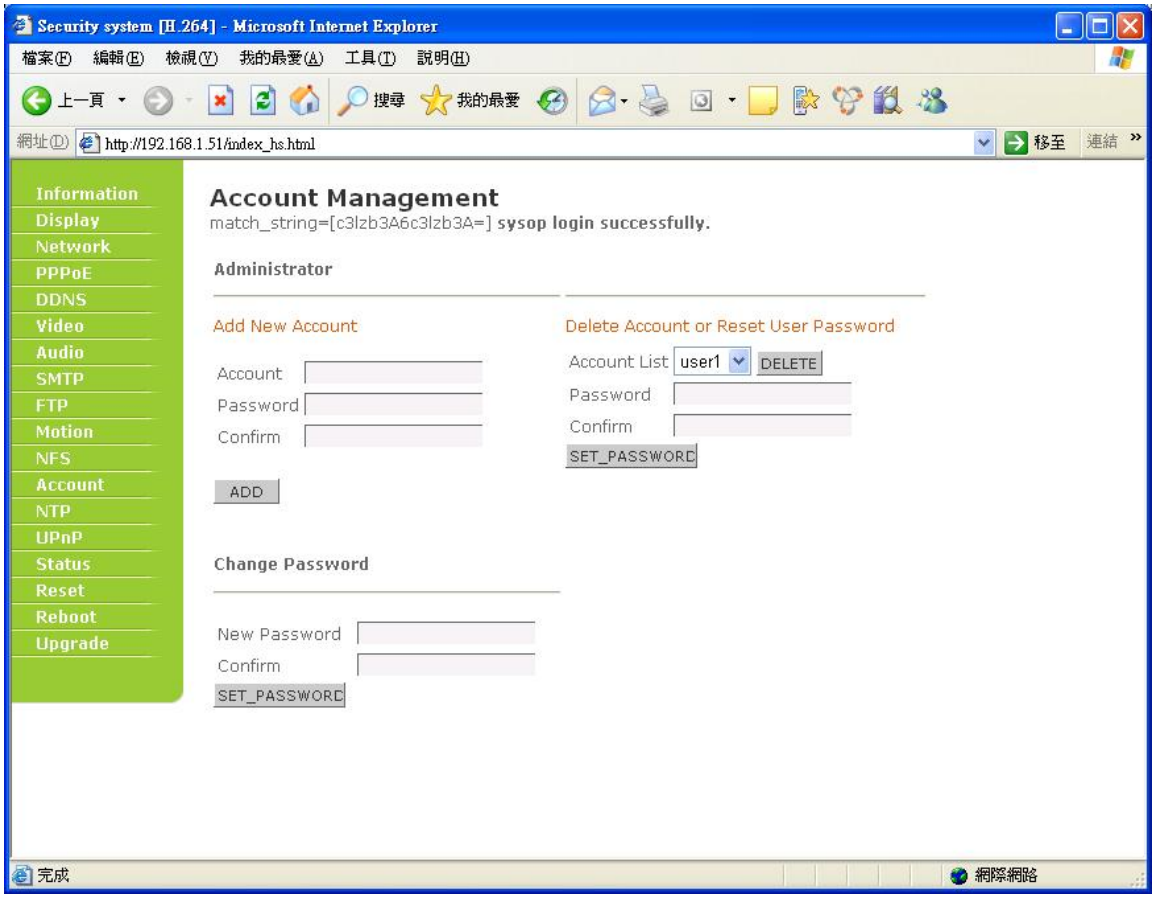
User name and password modify



User Name	User's login name. Default name is sysop
Password	User's login password. Default password is sysop
Confirm	Type the password again to confirm

After login, sysop (administrator) user can change login password or create new user account. See next page.

Account Management :



ADD New Account : Create a new user account

Account	New account
Password	New password
Confirm	New password
ADD	Confirm to add a new account

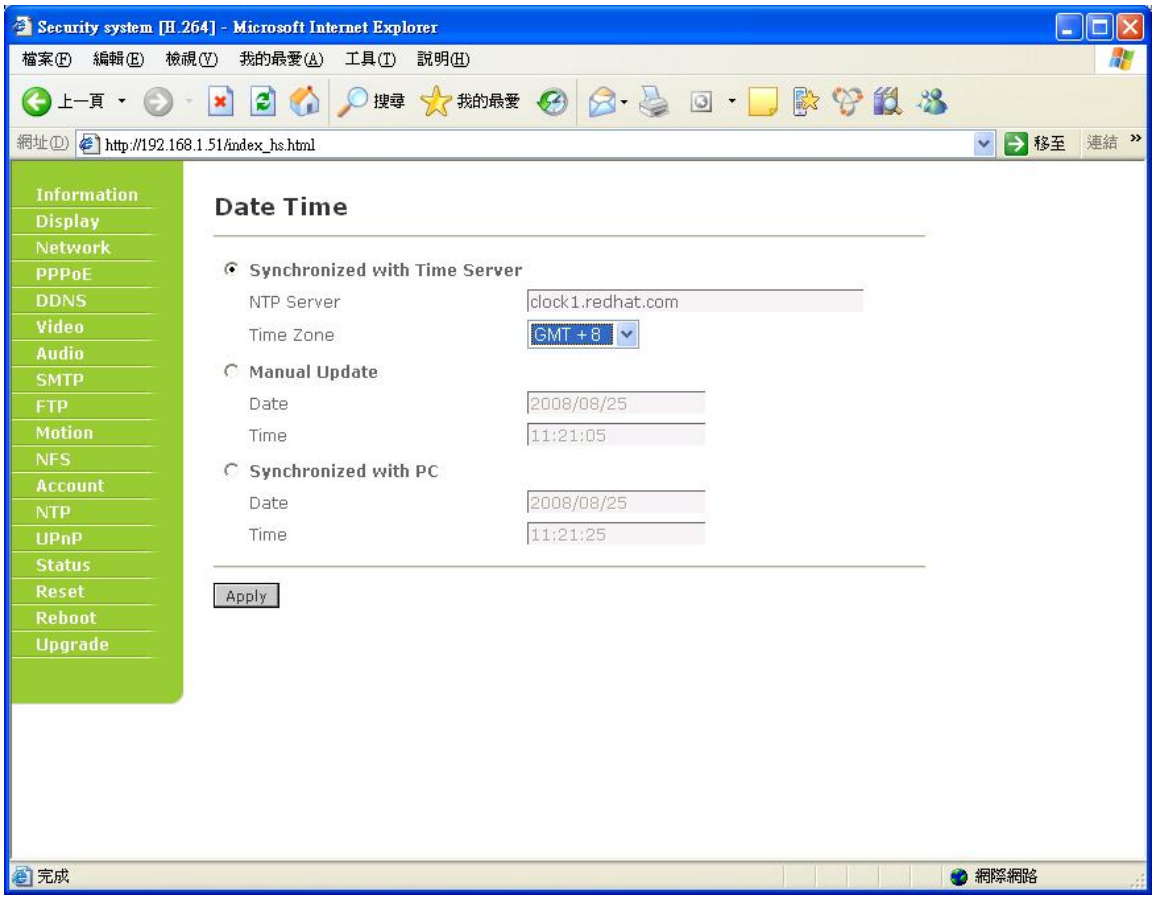
Delete Account or Reset User Password : Delete/Reset a user account

Account list	List all existed user account , user can select one account
Password	Modify account's password
Confirm	Type password again
DELETE	Delete a user account
SET PASSWORD	Confirm to change password

Change Password : Change the administrator's password

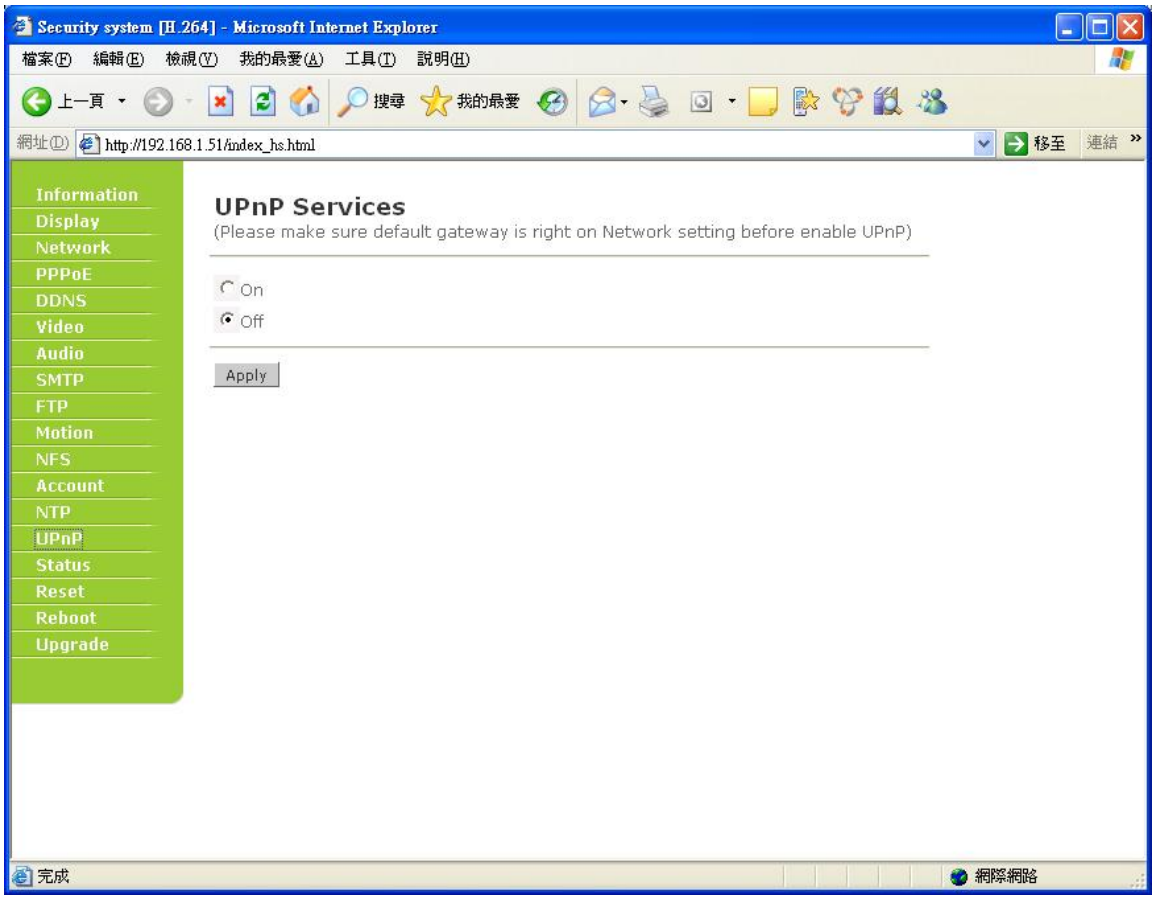
New Password	Type new password
Confirm	New password confirm
SET PASSWORD	Confirm to change password

2.12 NTP



Synchronized with Time Server	Synchronized with Network Time Server.
NTP Server	clock1.redhat.com (Default). time.nist.gov (Windows XP time zone reference) time.windows.com (Windows XP reference time zone)
Time Zone	Setup Time Zone
Manual Update	User setup by manual
Date	User defined
Time	User defined
Synchronized with PC	Synchronized with computer
Date	Synchronized with computer date
Time	Synchronized with computer time

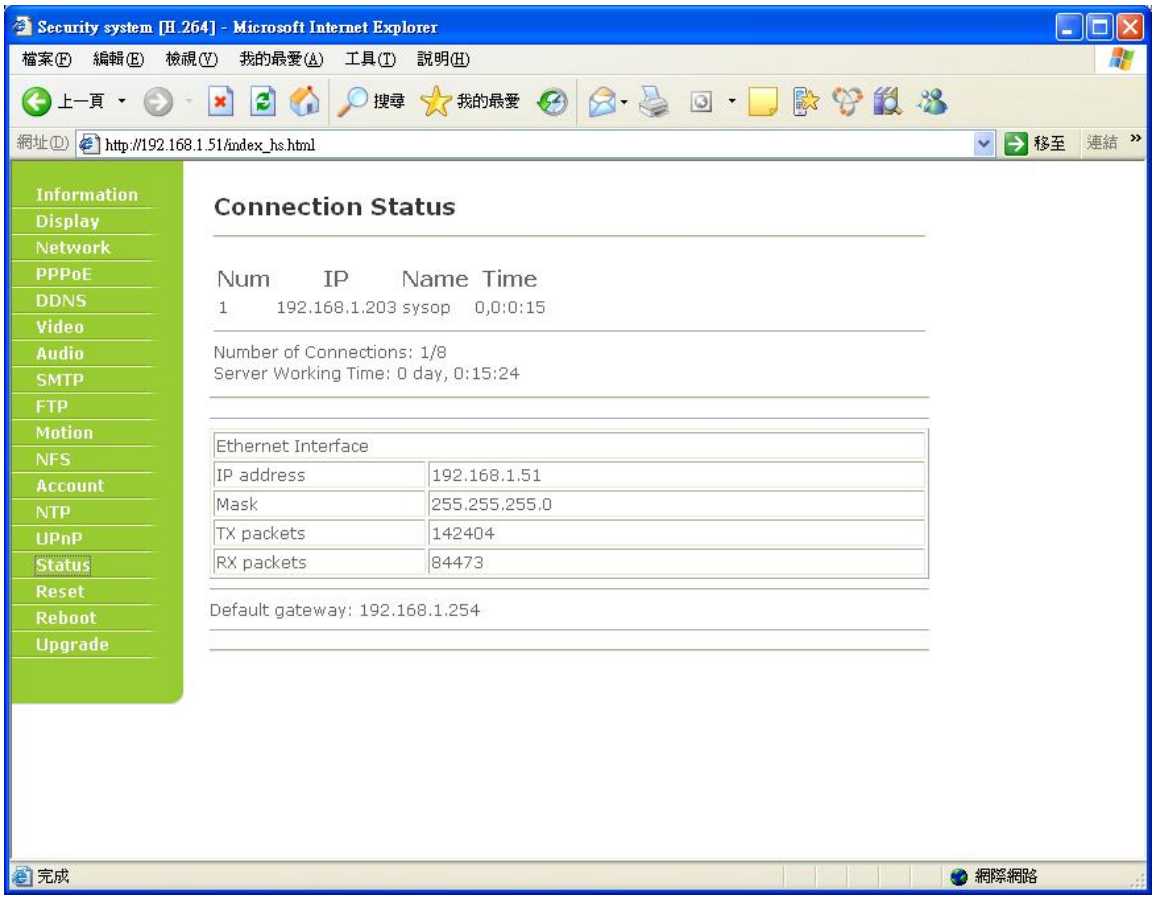
2.13 UPnP



When the UPnP Services is set to “ON”, it would be more easy for the IP Camera stream to pass through router or IP sharing if there is a gateways at a local network system.

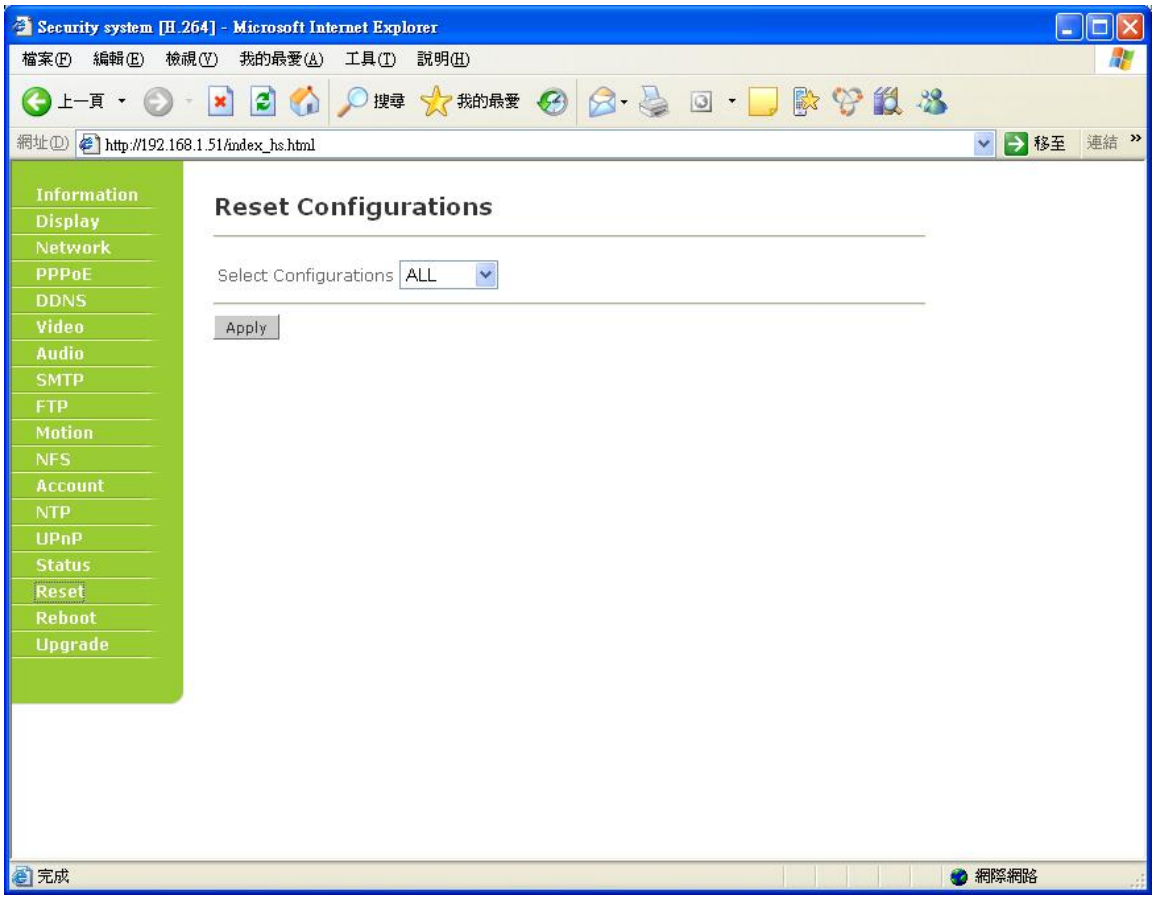
Router and IP sharing must also equipped with UPnP service.

2.14 Status



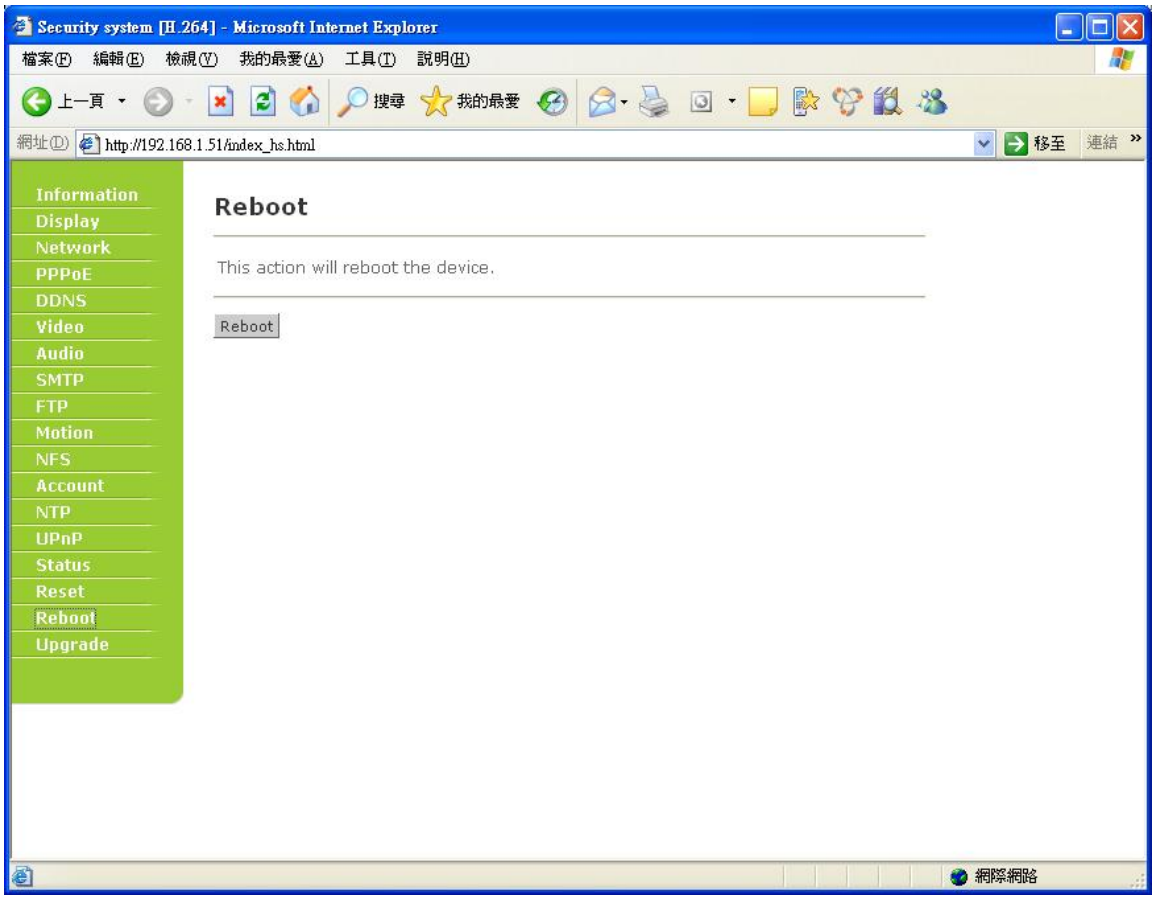
Display the connection status and network information of the Video server.

2.15 Reset



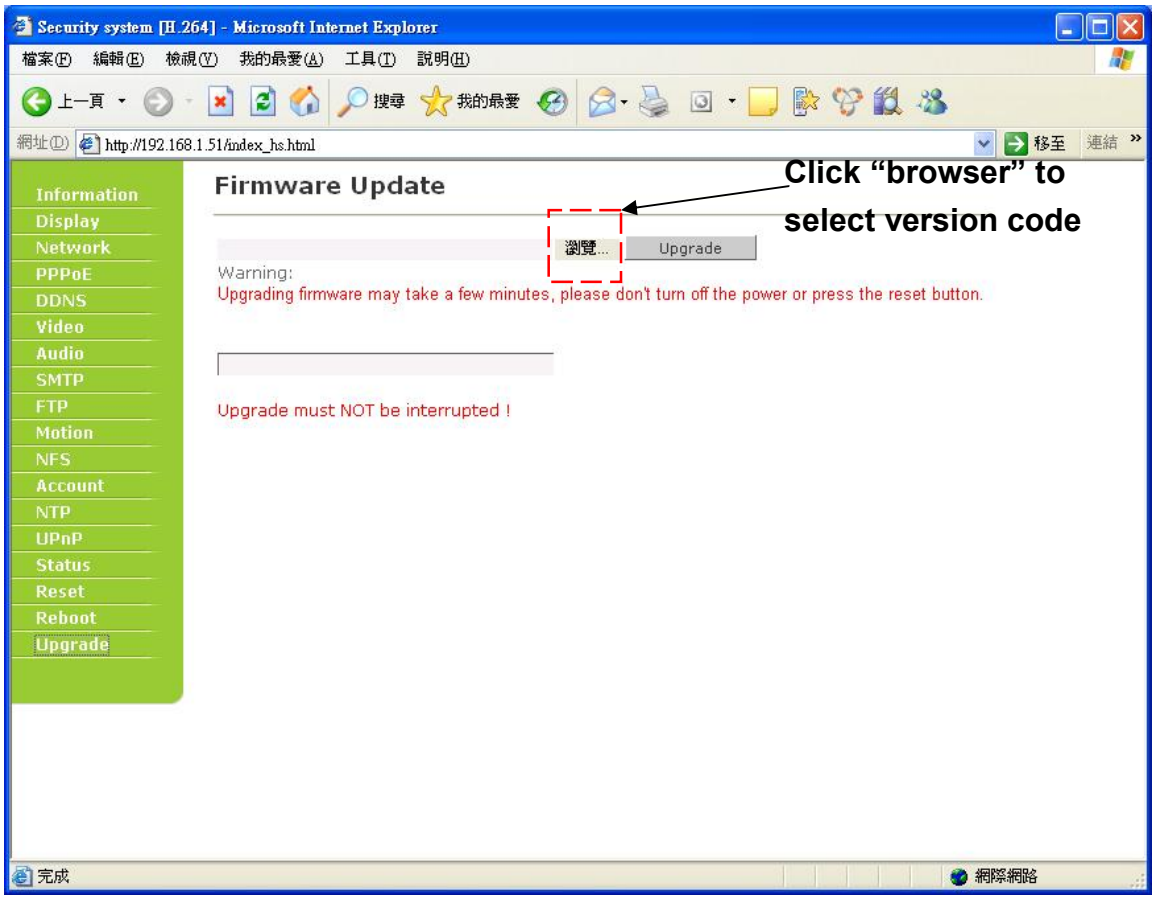
Reset all function settings to default or reset one of the settings.

2.16 Reboot

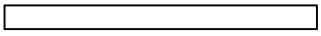


Re-boot the video server .

2.17 Upgrade



Select the latest firmware and click upgrade to start updating.

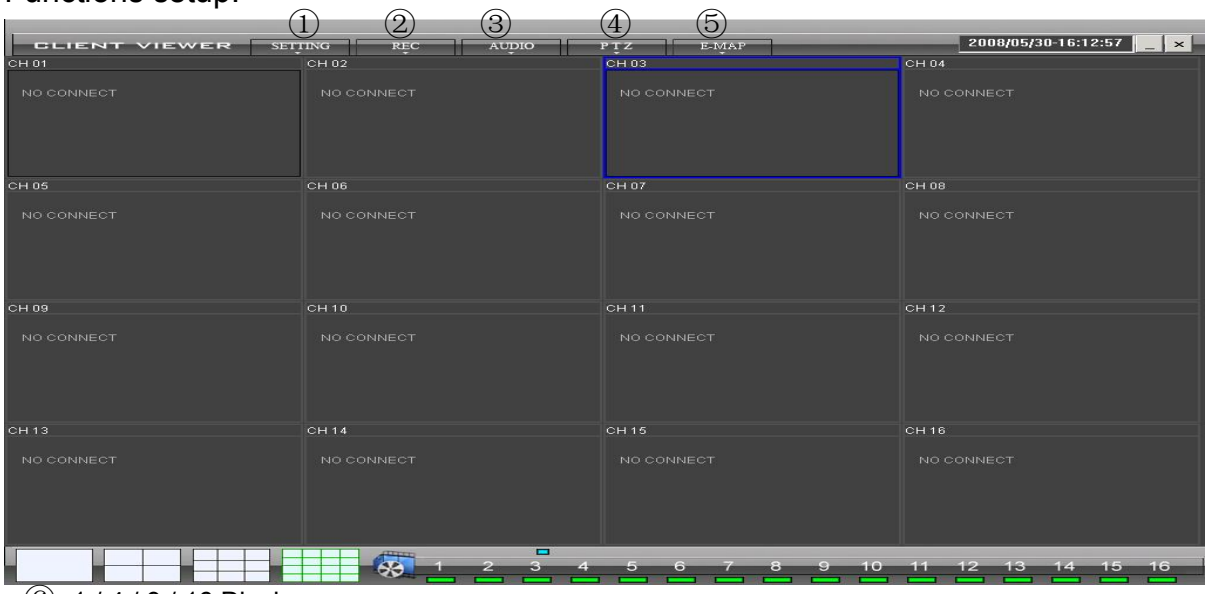


Upgrading process bar.

1. Please go to reset page and then reset to default after version update.
2. Please do not upgrade firmware when your network is busy .

3. Security system viewer Function Setup

Functions setup:



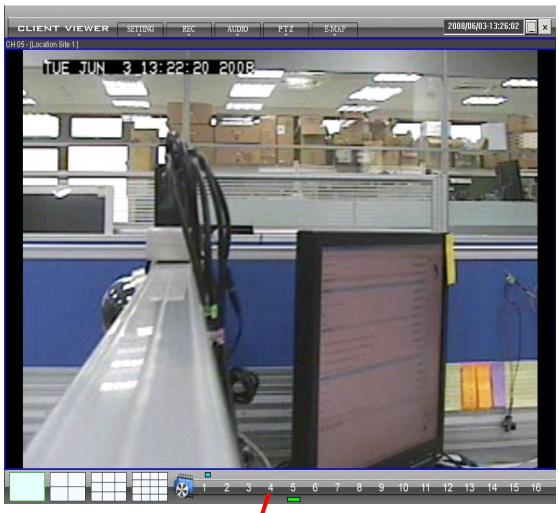
⑥ 1 / 4 / 9 / 16 Display

⑦ 1 ~ 16 Channels

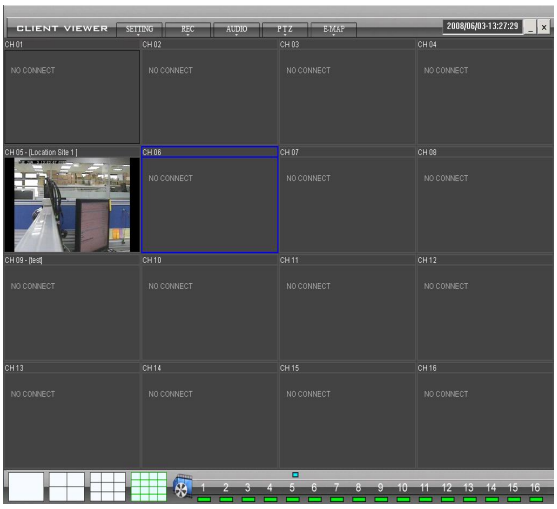
① SETTING	IP Camera connection setup
② REC	Video stream record (Single camera recording)
③ AUDIO	Two ways conversation mode on or off
④ PTZ	PTZ control mode
⑤ E-Map	Run E-Map function
⑥ Screen display	Full screen / 4 / 9 / 16 Split screen
⑦ Full screen	Camera 1 ~ 16 select for full screen display

3.1 Screen Display

Full screen



Split screen

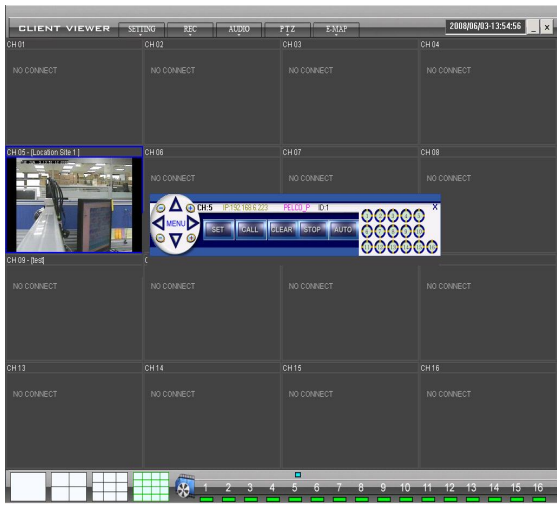


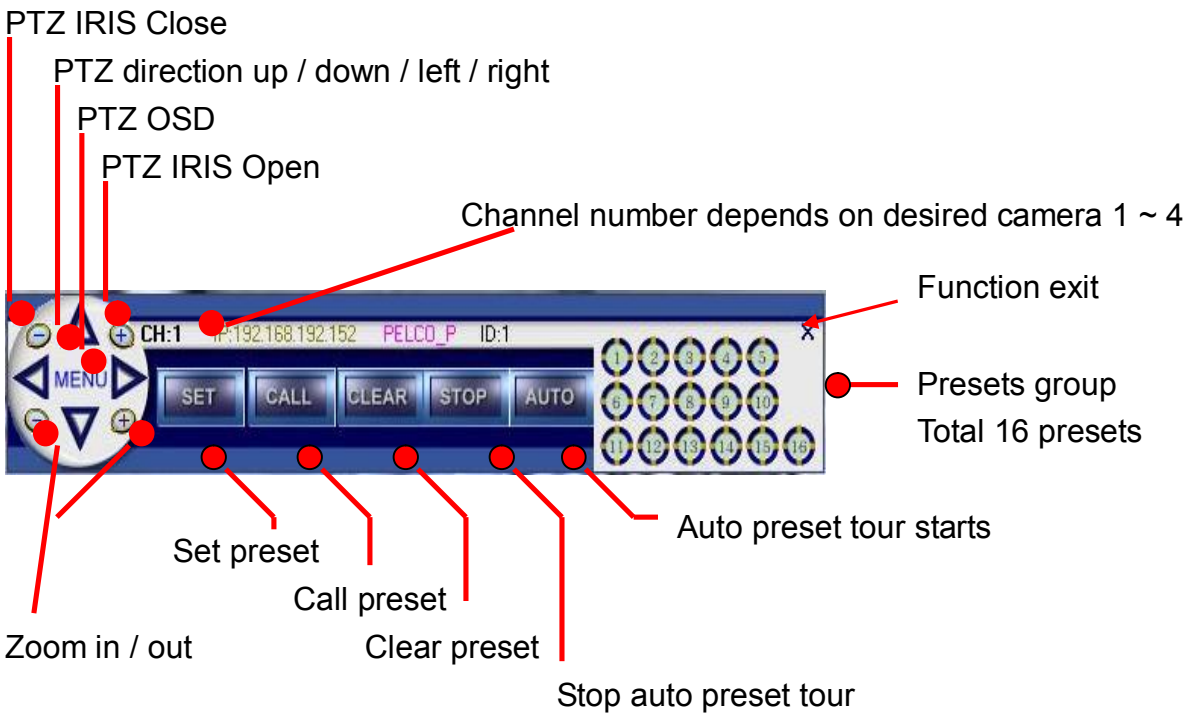
Click left button of mouse to select 1 ~ 16 for full screen display.

3.2 PTZ Control

Full screen

Split screen





Notice:

PTZ dome ID depends on different protocol. Please choose correct ID and protocol.

Pelco P: 0 ~ 254

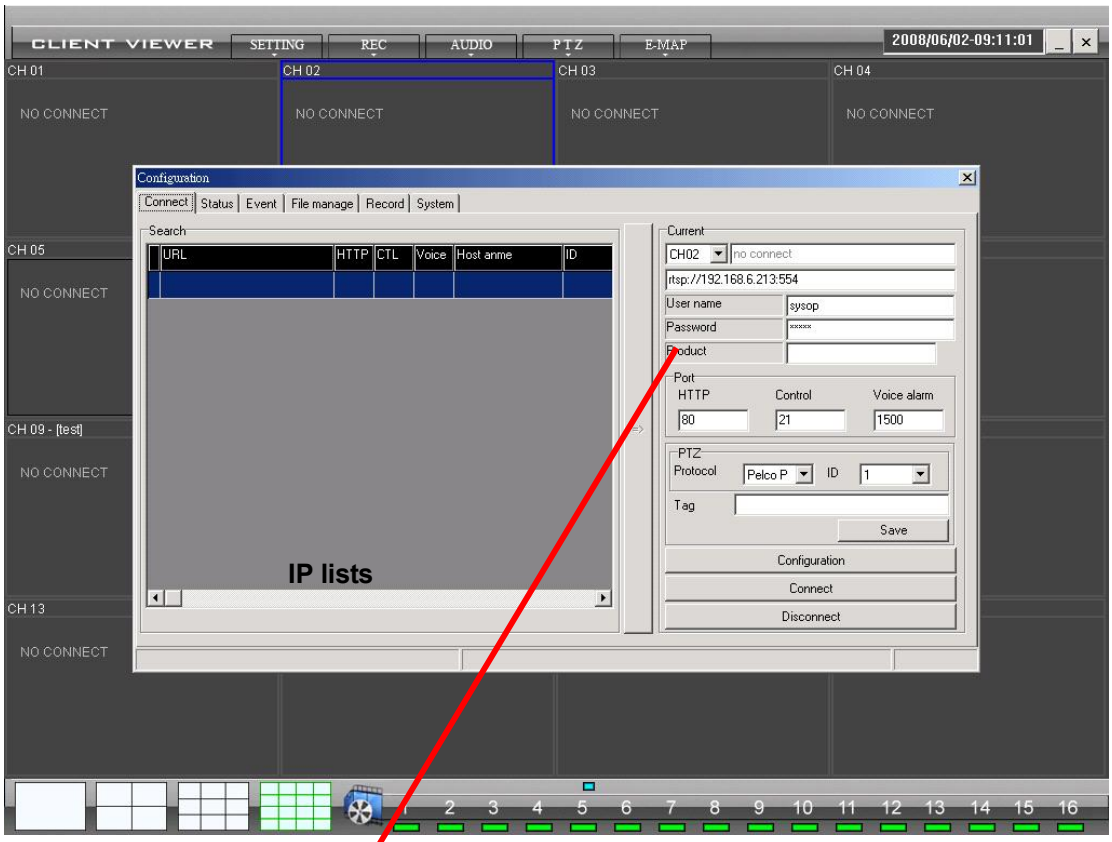
Pelco D: 1 ~ 255

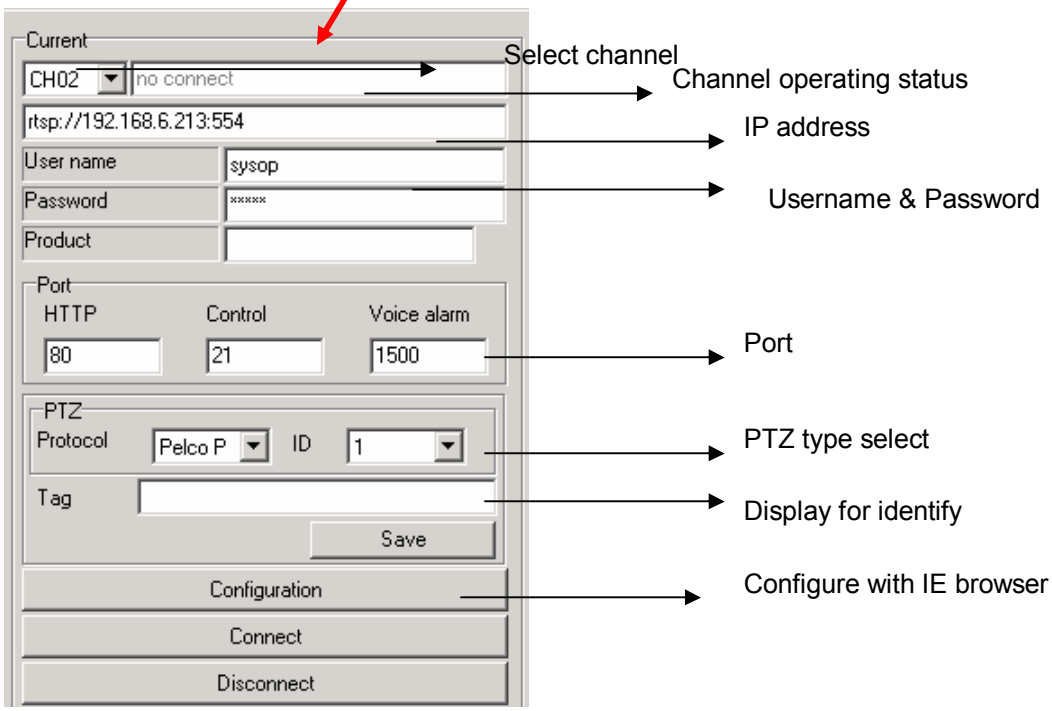
3.3 Connection

On selected camera channel, click left button of mouse to enter, and then click right button of mouse and select “Connect” to input IP address.

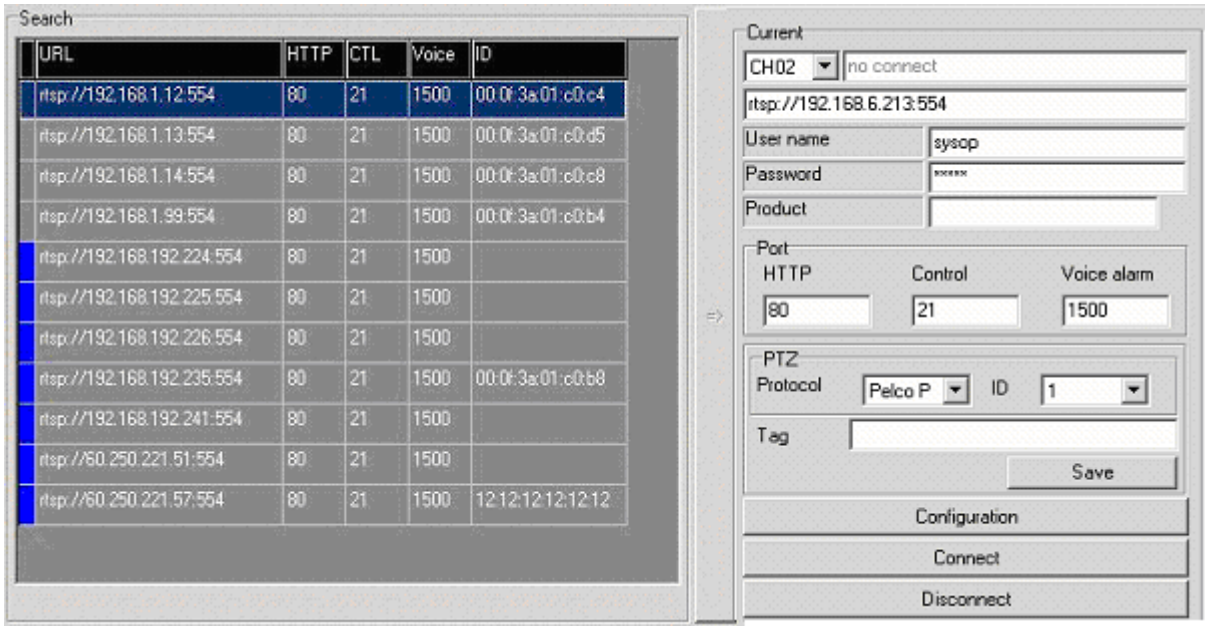
User can input the IP address by himself or type the default IP address

Default IP address **rtsp://192.168.1.51:554** ; username: **sysop**; password: **sysop**

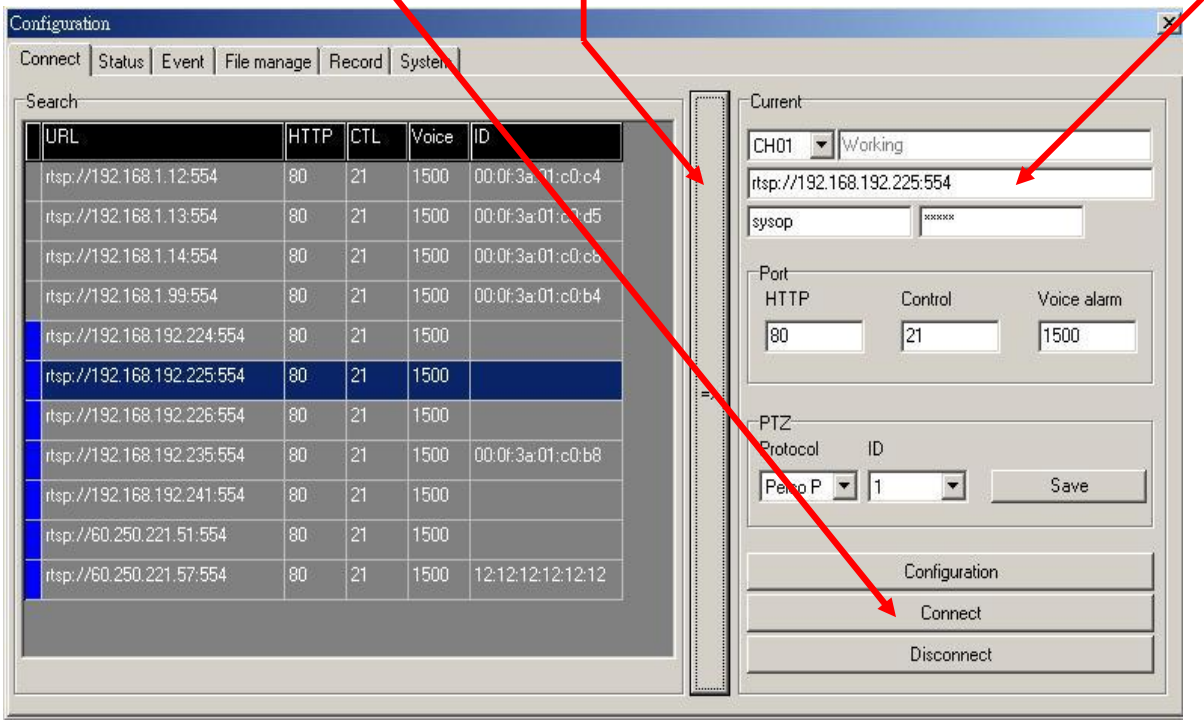




IP Camera will be automatically discovered and shown on the left side, if they are in the same subnet under IP sharing device.



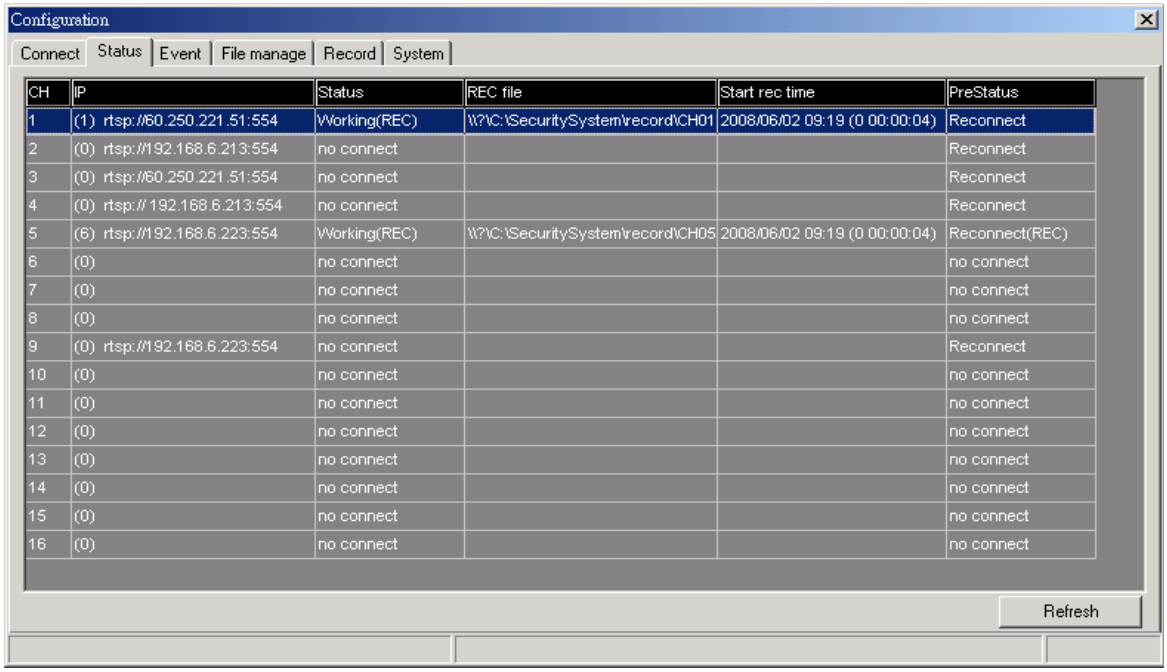
Select an IP Camera then press this button(=>), it will automatically fill up the connection data in the right side, then press “connect” button to connect which has be chose n IP Camera.



3.3.1 Connection Status

Connection status display as below:

CH	Display channel 1 ~ channel 16 status
IP	Display remote IP Camera IP address
Status	Connected status , Working / No connect
REC file	The record file save on local pc path and filename
Start rec time	Start record time
PreStatus	Last time operating

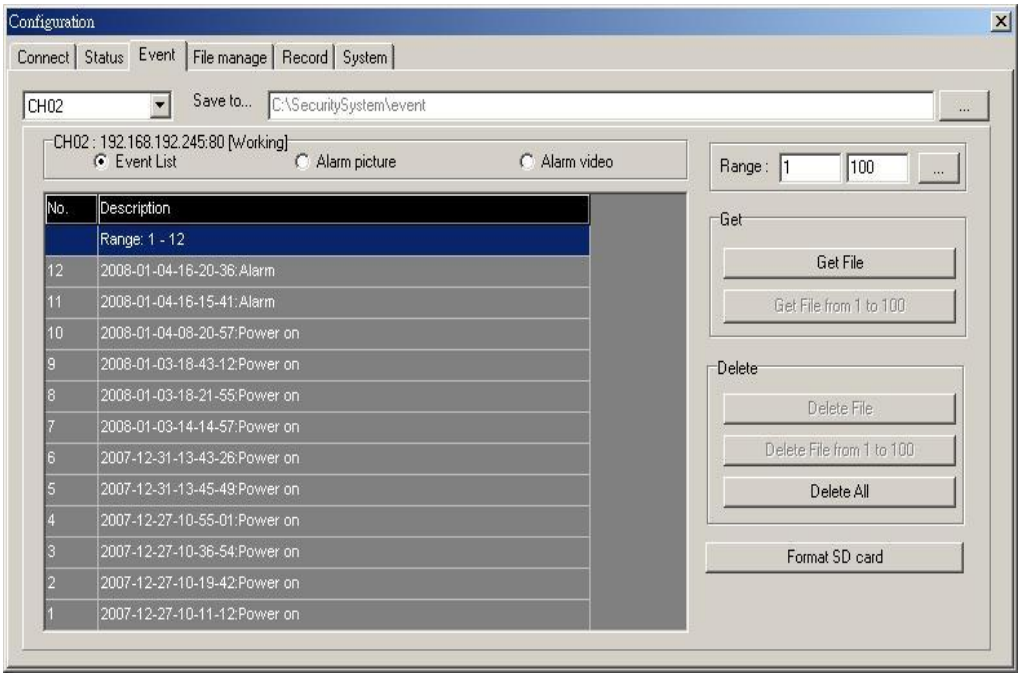

Configuration
Connect
Status
Event
File manage
Record
System
CH
IP
Status
REC file
Start rec time
PreStatus
1 (1) rtsp://60.250.221.51:554 Working(REC) \\?\C:\SecuritySystem\record\CH01 2008/06/02 09:19 (0 00:00:04) Reconnect
2 (0) rtsp://192.168.6.213:554 no connect Reconnect
3 (0) rtsp://60.250.221.51:554 no connect Reconnect
4 (0) rtsp:// 192.168.6.213:554 no connect Reconnect
5 (6) rtsp://192.168.6.223:554 Working(REC) \\?\C:\SecuritySystem\record\CH05 2008/06/02 09:19 (0 00:00:04) Reconnect(REC)
6 (0) no connect no connect
7 (0) no connect no connect
8 (0) no connect no connect
9 (0) rtsp://192.168.6.223:554 no connect Reconnect
10 (0) no connect no connect
11 (0) no connect no connect
12 (0) no connect no connect
13 (0) no connect no connect
14 (0) no connect no connect
15 (0) no connect no connect
16 (0) no connect no connect
Refresh

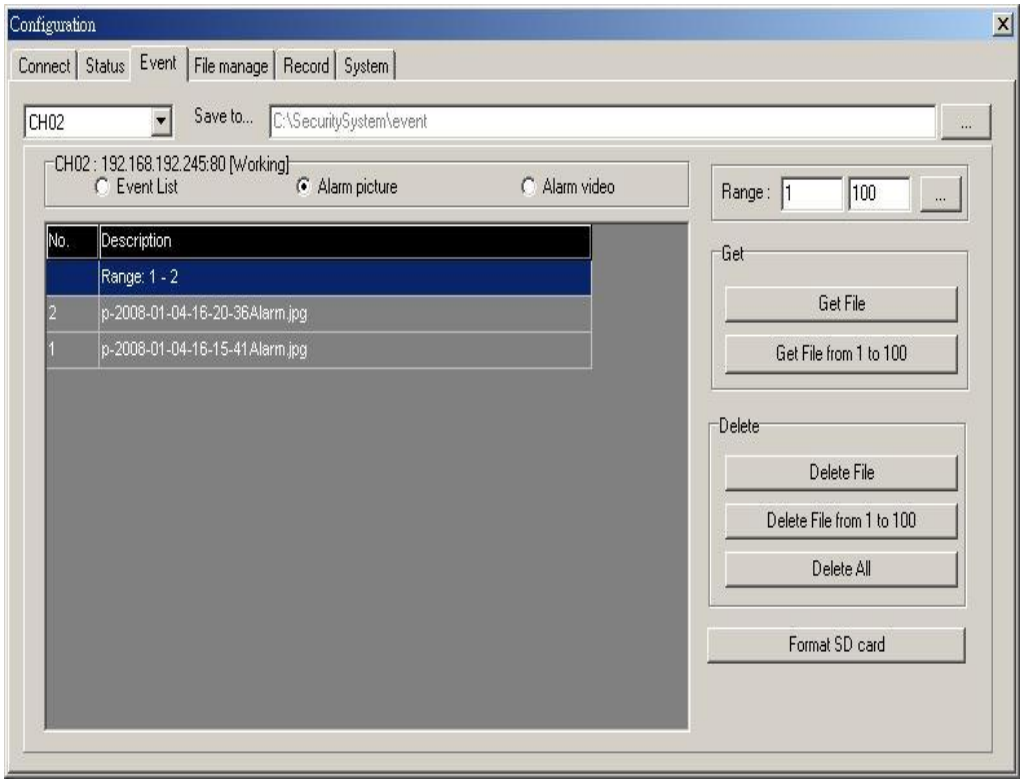
3.3.2 Event List

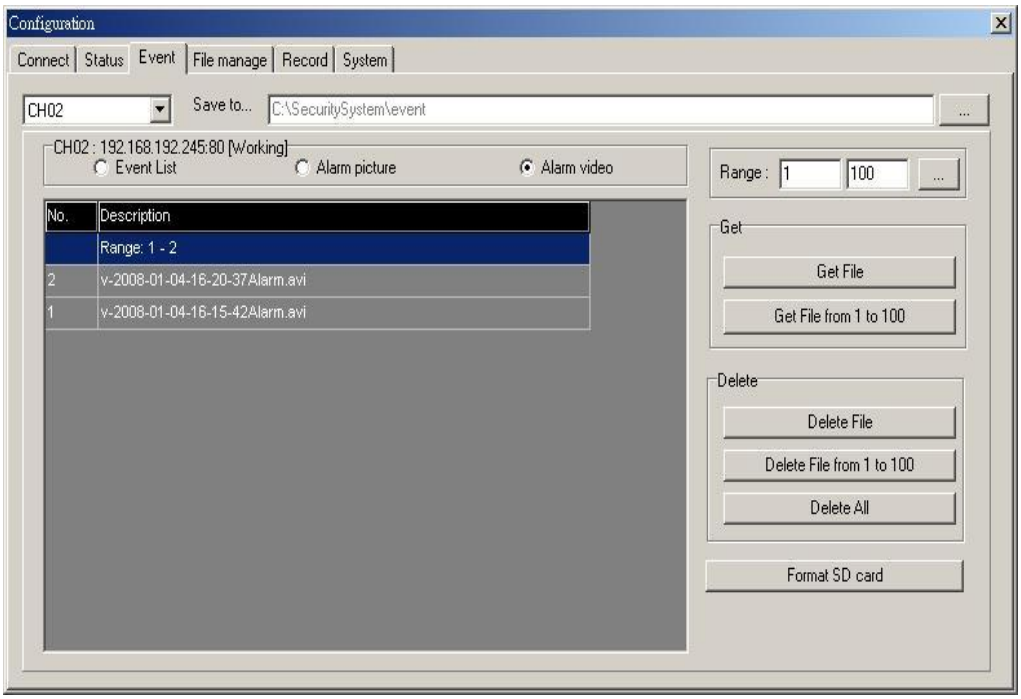
User have to insert SD card before power on this IP Camera, any event will be recorded on SD memory card.

SD card recommends installing to 2GB.

User can view event by different event type: Event list, Alarm picture, Alarm video.







User can backup any event to local pc just setup the event range and select the directory that you want to save the event record then press “Get File” button , it will backup the event to your local pc .

Also user can delete event from the SD card or Format SD card.

NOTICE:

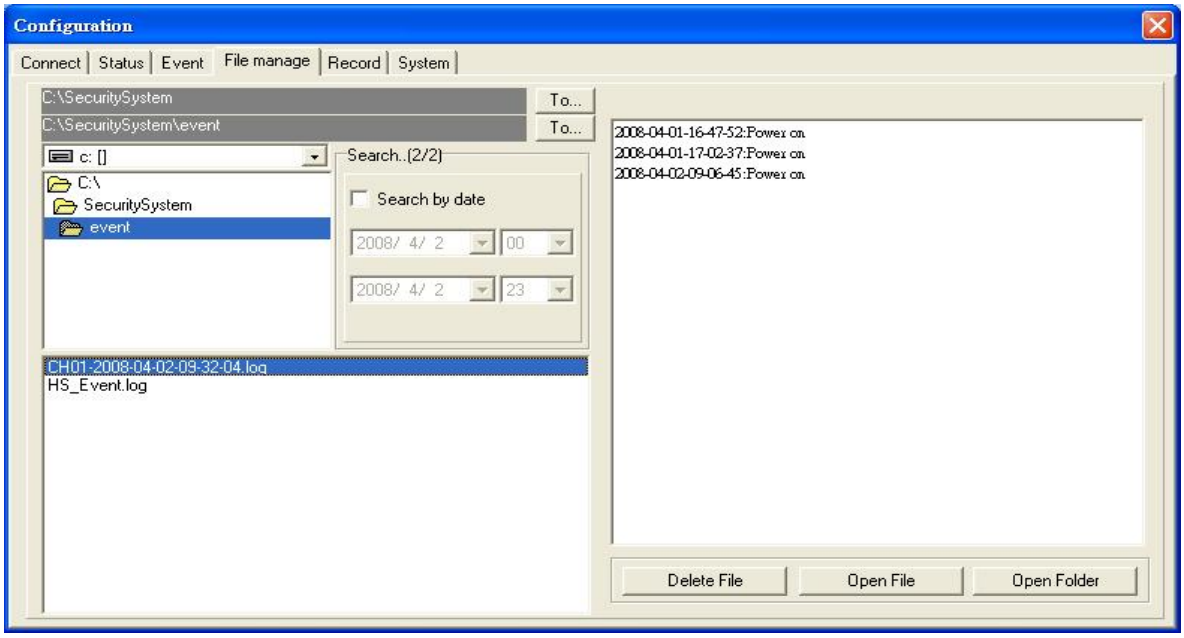
1. Format SD card will delete all data on SD memory card.

2. Please format SD card by ”Format SD card” button at first time.

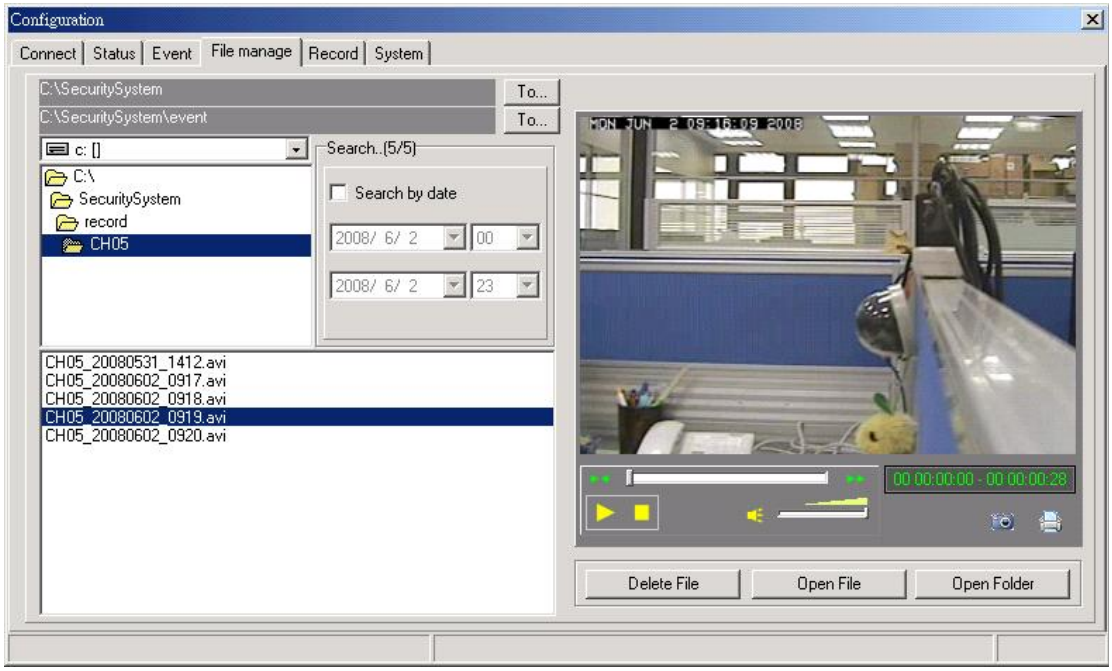
3.3.3 File Manage

User can use this function to manage events, records and snapshots.

It displays the event list at the right side that you have downloaded from SD card.



User can select the recorded video to play, video data of each channel are stored in the corresponding directory.



3.3.4 Record

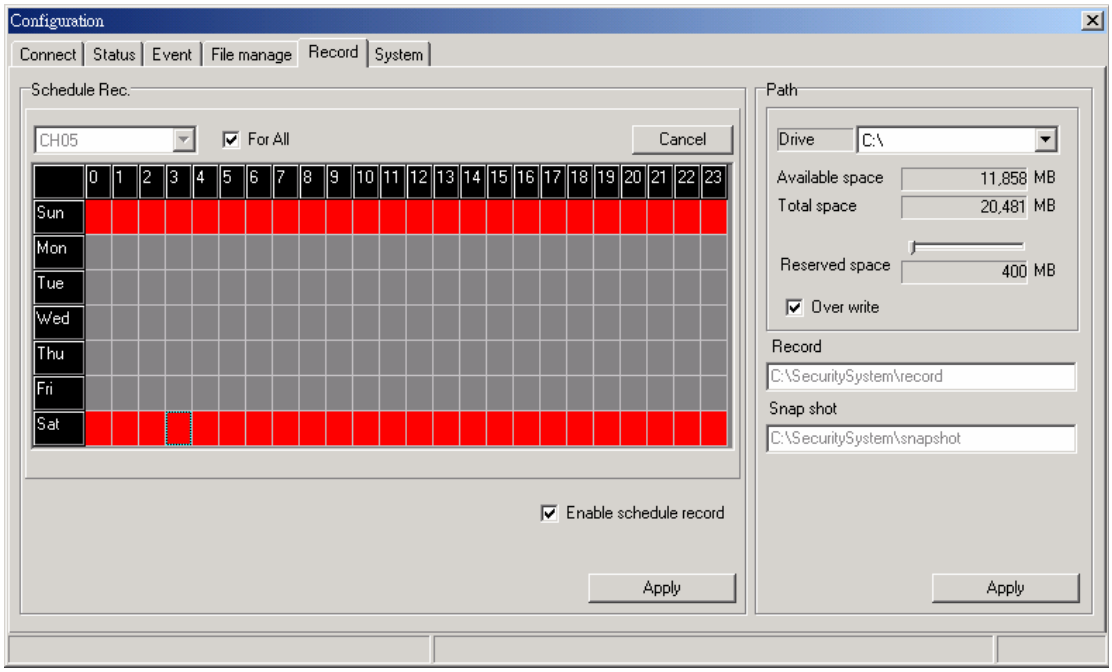
This function is used to setup the schedule record. User can setup schedule record for different channel or choose “For All “ to set all channels to the same setting. Detail as below:

Path	The schedule record will save video data on local pc , user can select the local pc file path to saved
Available space	Display the local pc hard disk available space
Total space	Display the local pc hard disk total space
reserved space	If setup 200 MB, it means when Hard Disk available space only 200 MB, system will check the overwrite status to stop record or overwrite Hard Disk.
Over write	When local pc Hard Disk space full , the record data will over write oldest data
Record	The record data save on local pc file path
Snapshot	The snapshot save on local pc file path
Enable schedule record	User have to enable this then the schedule can work normally

NOTICE :

Schedule record, duration of each file is 10 minutes and saves at default path.

For example: one hour record will be saved 6 files and each file with 10 minutes.

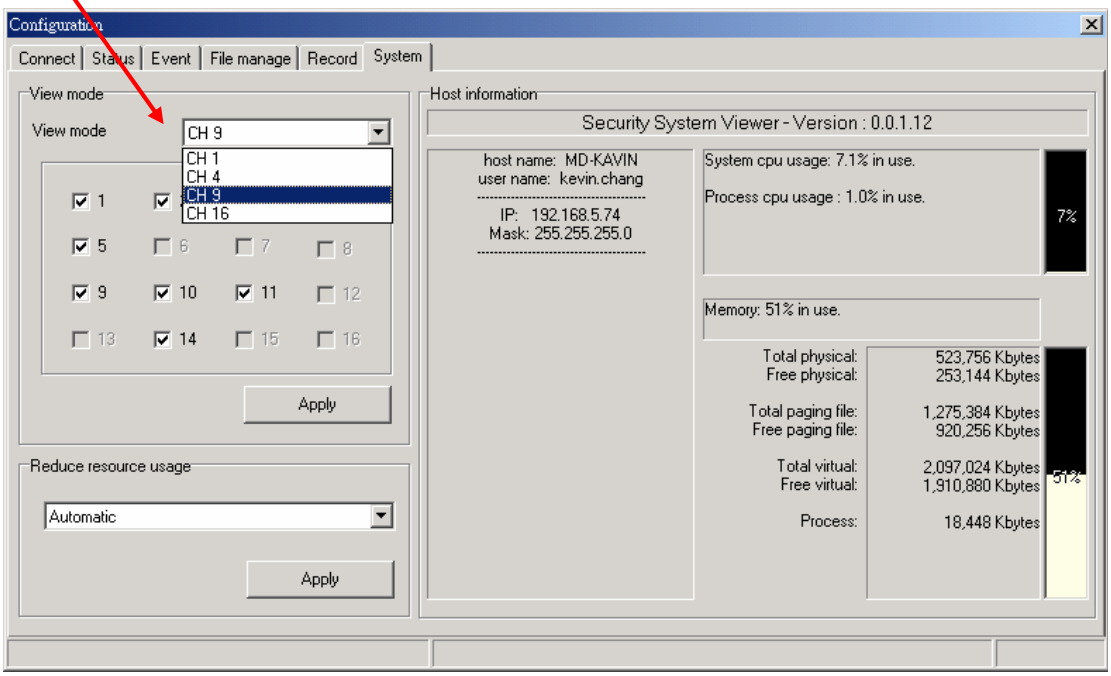


3.3.5 System

This function display the system information, user can check the CPU and memory usage.

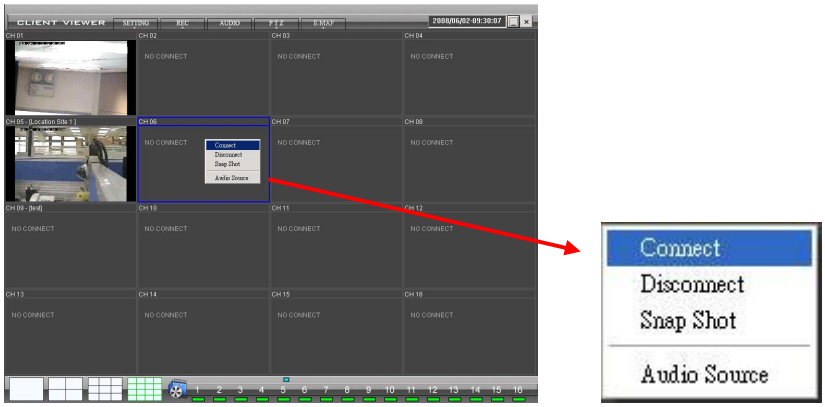
View mode: User can select channel view mode: 1/ 4/ 9/ 16 for display

Example: If user select CH4 and enable 1,5,10,14 channels then apply , user will see quad screen which include 1,5,10,14 channels .



After the first camera video connection, user can continue to connect another camera channel.

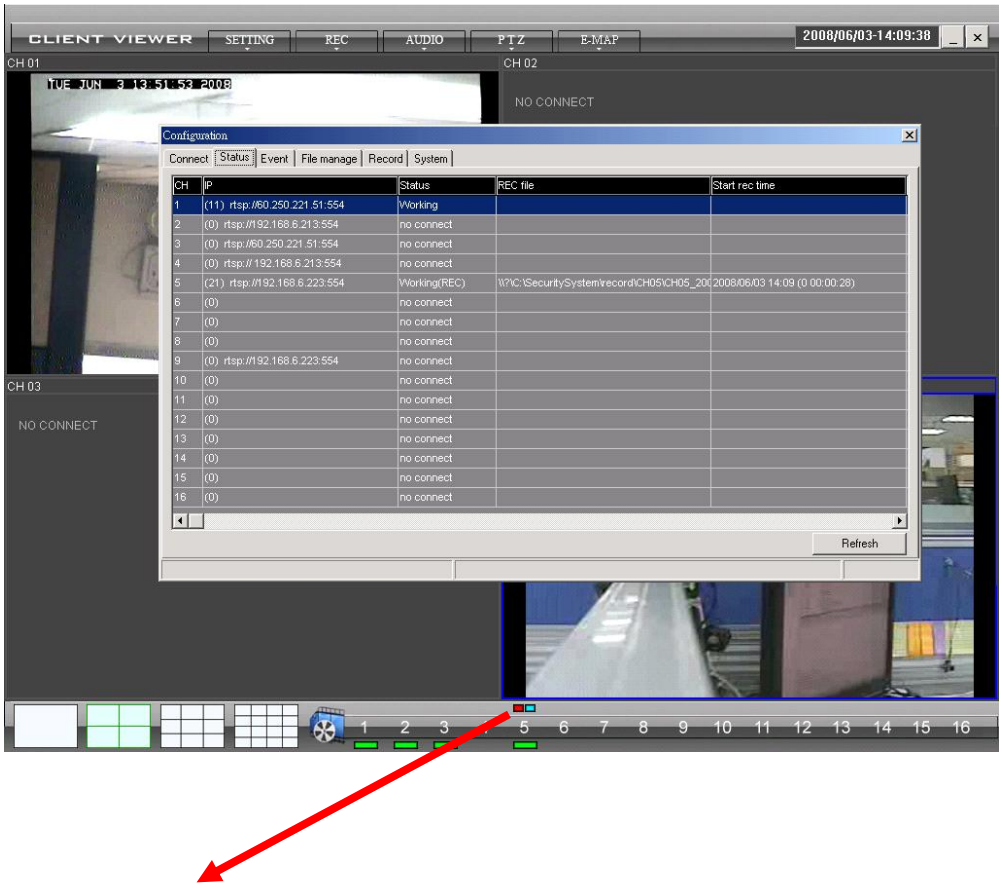
Example: On selected channel 6, click left button of mouse and then click right button of mouse to show shortcut menu.



Connect	Open configuration window
Disconnect	Terminate connection
Snap Shot	Take the current video picture
Audio Source	Audio mode on / off

3.3.6 Working Status

Status: IP Camera working status window



Blue color:

Under desired camera channel, click left button of mouse to choose then click right button to select Audio Source. Now user can hear sounds from live environment.

Red color

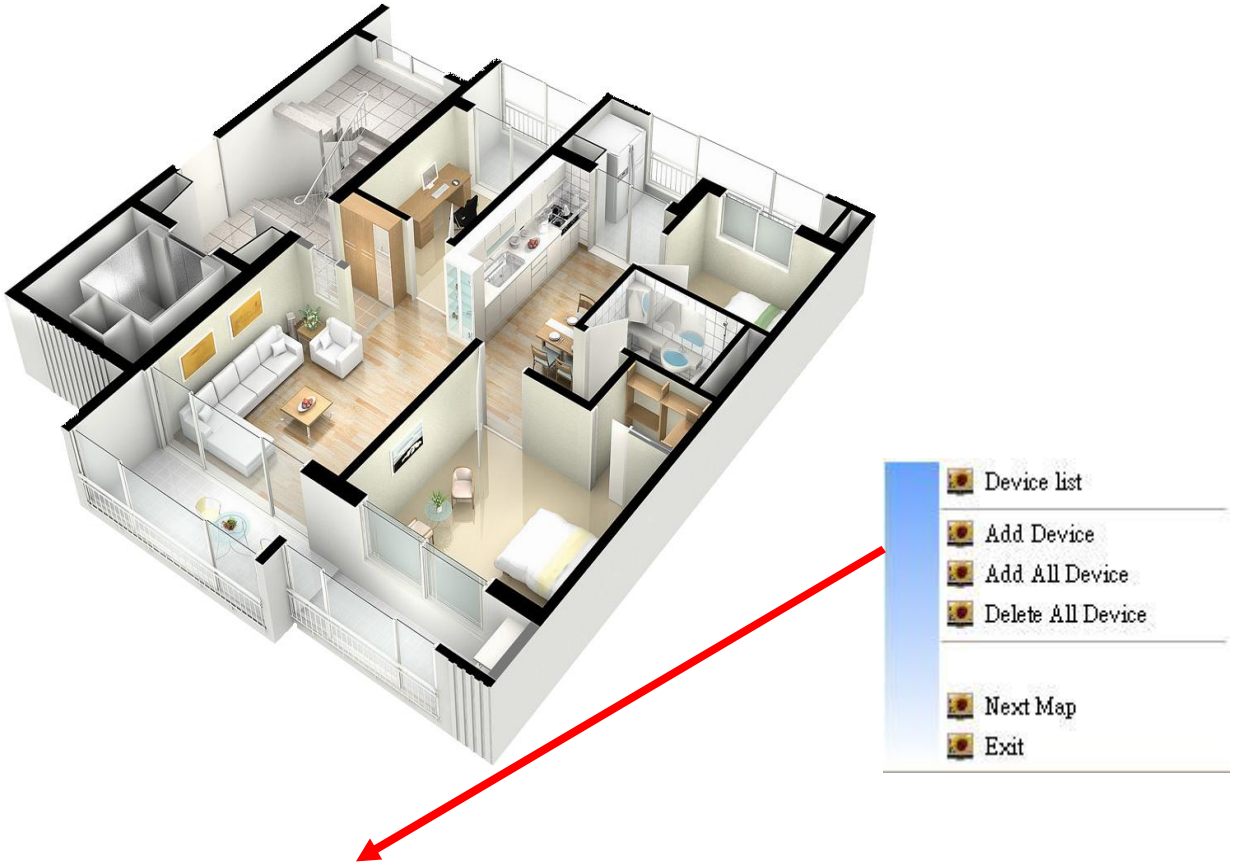
Under desired camera channel, click left button of mouse to choose then click menu bar “REC” button, system starts to record the camera to default path C:\SecuritySystem\record . Click REC button again to cancel video record. Each channel video will be saved in different directory.

Yellow color

On Audio Source mode, click left button of mouse to enter. And then click menu bar “AUDIO” to enable two way conversation mode.

4. E-map Function Setup

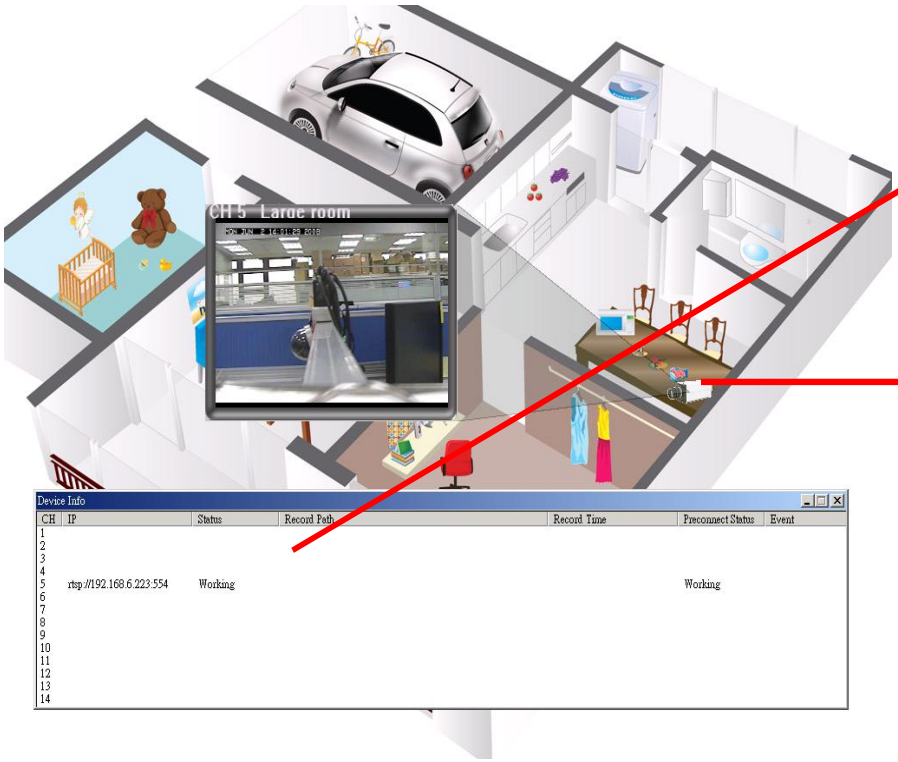
After user select E-Map function it will display a default map , user can setup all IP cameras on the map and show each camera location , user friendly interface design let user can see all IP cameras on the Map .



Device list	List all IP Camera connection status
Add Device	Add a new IP Camera on the MAP
Add All Device	All all IP Camera on the MAP
Delete All Device	Delete all IP Camera on the MAP
Next Map	Change next MAP
Exit	Exit E-MAP function

4.1 Device List

On the E-map user can move the camera icon to desire location and the camera video window also can use mouse to change windows size .



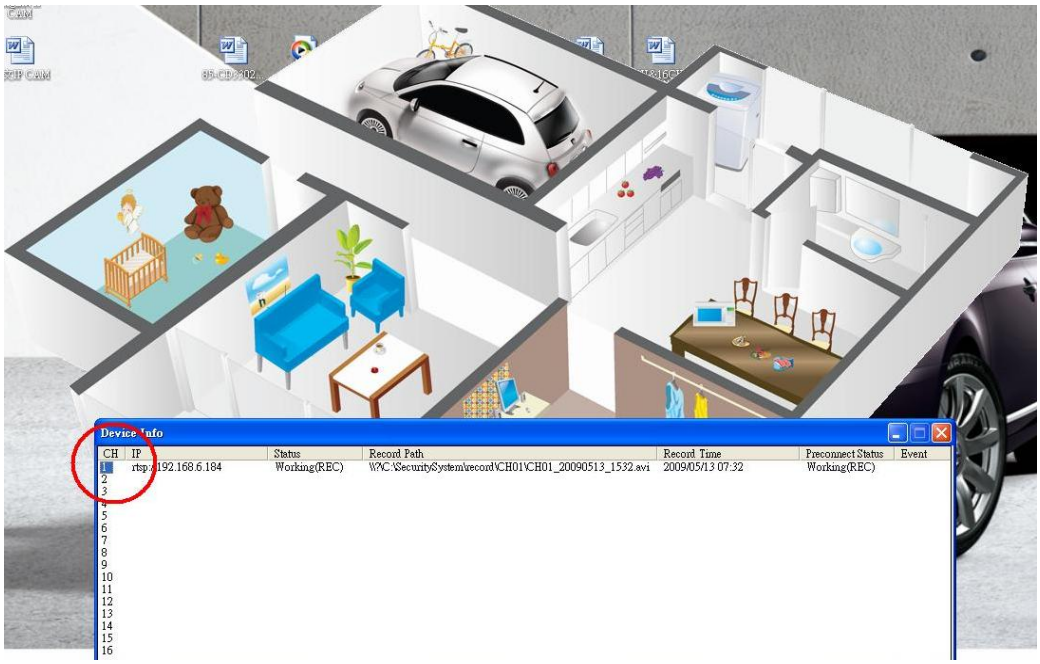
Device Info :
It show all device list status , when use mouse click the device list again , the device info window will be hidden .

The camera icon can move to any position

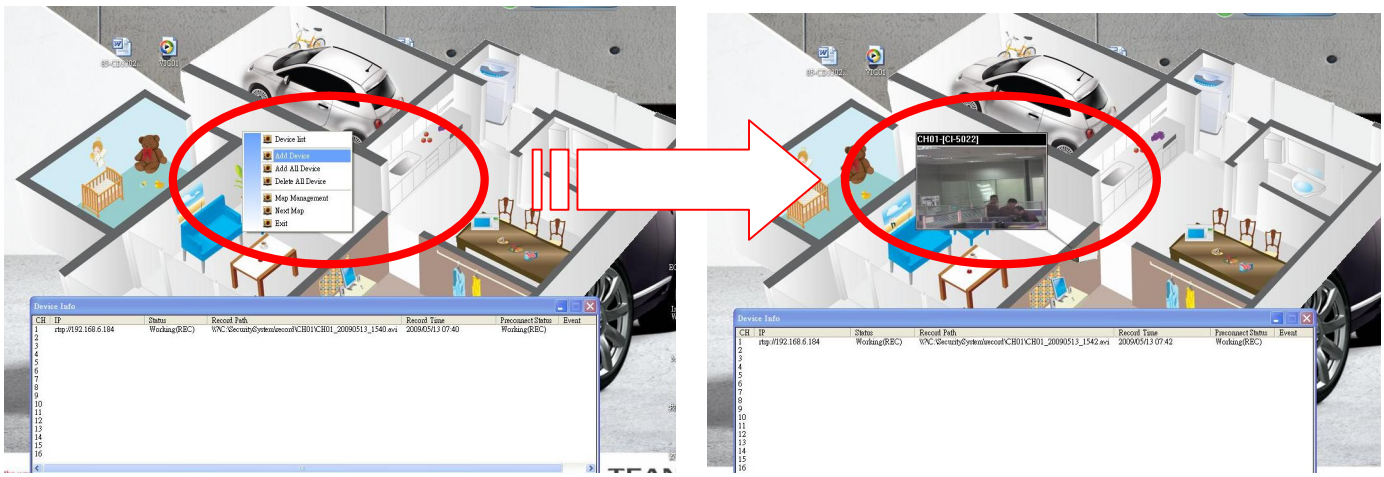
4.2 Add Device

User can add a new IP Camera on the E-map. Please follow the next steps,

Step 1.Click CH number on Device List window



Step 2.Move mouse cursor to E-map then click mouse right button. Select “Add Device” on the shortcut menu to add the IP Camera.



4.3 Add All Device

Let user add all IP cameras on the map that was setup on Security system viewer. User can move the IP Camera position to any place.

4.4 Delete All Device

Let user delete all IP cameras on the E-map.

4.5 Next Map

Use this function to change E-map.

4.6 Exit

Quit the E-map function and return to Security system viewer mode.

5. SPECIFICATIONS

Feature

- Support POE
- Support Embedded Linux
- Stand-alone TCP/IP Networking device platform
- Support NFS network schedule record
- Web server for remote setting
- Support intelligent motion detection (3 motion windows)
- Remote upgrade and configuration via network

Compression

- Support H.264 / MPEG-4 / MJPEG video compress
- Support H.264 / MPEG-4 / MJPEG dual bit streaming
- Support MP2, AMR-NB audio compress
- Support 2 way audio function
- Support 3G

Storage

- Support on-line backup with AVI file format
- Support SD Card backup for event recording

Networking

- Support RTSP, RTP over TCP/IP, support unicast & multicast
- Support Ethernet LAN 10/100 Mbps for remote view/control, recording data backup, and firmware update
- Optional Wi-Fi 802.11 b/g for supporting wireless LAN communication
- Support UPnP IGD device

I/O

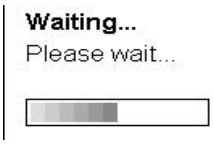
- Support Digital I/O for 1 sensor input, 1 relay out.

Power

- Support +12V DC power adapter input system

6. Q & A

1. After function value changed and saved, user needs to wait while back to display mode.



2. Date and time caption shake if resolution is too low.

3. Time can only be set up 2038 / 01 / 18. This is a specification of an electric apparatus

4. User needs to reconnect IP Camera after IP address is changed.

5. Sometimes the video displaying on viewer or IE is slower than actual live because the network transmission jam or resolution defines.

6. When network DHCP is ON, after IP address is saved; at this time if some mess words shows up, user please reset(the device reset button) IP Camera .

7. NTP values always the same even date and time adjusted.

8. If Stream 2 Settings is saved, the live display is still on stream1, user needs to change to stream 2 until next display shows up.

9. Under desired camera channel, if user click left button of mouse to enter, the channel would have a little flash because the image is afresh.

10. Every event always triggered after previous event finished.

11. Use the PC/NB connected with IP Cam over 10 channels at the same time , if the screen display begin to lag or reconnect again and again , please check the client side PC/NB hardware , the root cause maybe the PC/NB RAM not enough , see the page 8 , the Hardware device for your reference. When you are using D1 resolution, the MAX connections can not over 4 channels.

MEMO

MEMO